EXHIBIT 13

U.S. Patent No 10,547,631 v. Zoho

Overview

Plaintiff accuses Defendant of infringement through making, using, selling, offering for sale, and importation of Zoho's ("Defendant" or "Zoho") ManageEngine, including Endpoint Central and Vulnerability Manager Plus (the "Accused System and Method"), and all substantially similar products. The term "Accused System and Method" includes the associated computer hardware, interfaces, software, and data, and the processes and methods related thereto.

The Accused System and Method is accused of directly infringing U.S. Patent No. 10,547,631 (the"'631 Patent"). Plaintiff further accuses Defendant of indirectly infringing the '631 Patent by providing its customers and others the Accused System and Method to utilize in an infringing manner. Defendant intends to cause infringement by its customers and users as Defendant instructs users to use the Accused System and Method in an infringing manner. Defendant deploys client software to implement the Accused System and Method. Defendant also provides support and implementation services for the Accused System and Method, including providing instructions, guides, online materials, and technical support.

The asserted claims include elements that are implemented, at least in part, by proprietary electronics and software in the Accused System and Method. The precise designs, processes, and algorithms used in them are held secret, at least in part, and are not publicly available in their entirety. An analysis of Defendant's documentation and/or source code may be necessary to fully and accurately describe all infringing features and functionality of the Accused System and, accordingly, Plaintiff reserves the right to supplement these contentions once such information is made available to Plaintiff. Furthermore, Plaintiff reserves the right to revise these contentions, including as discovery in the case progresses, in view of the Court's final claim construction in this action and in connection with the provision of its expert reports.

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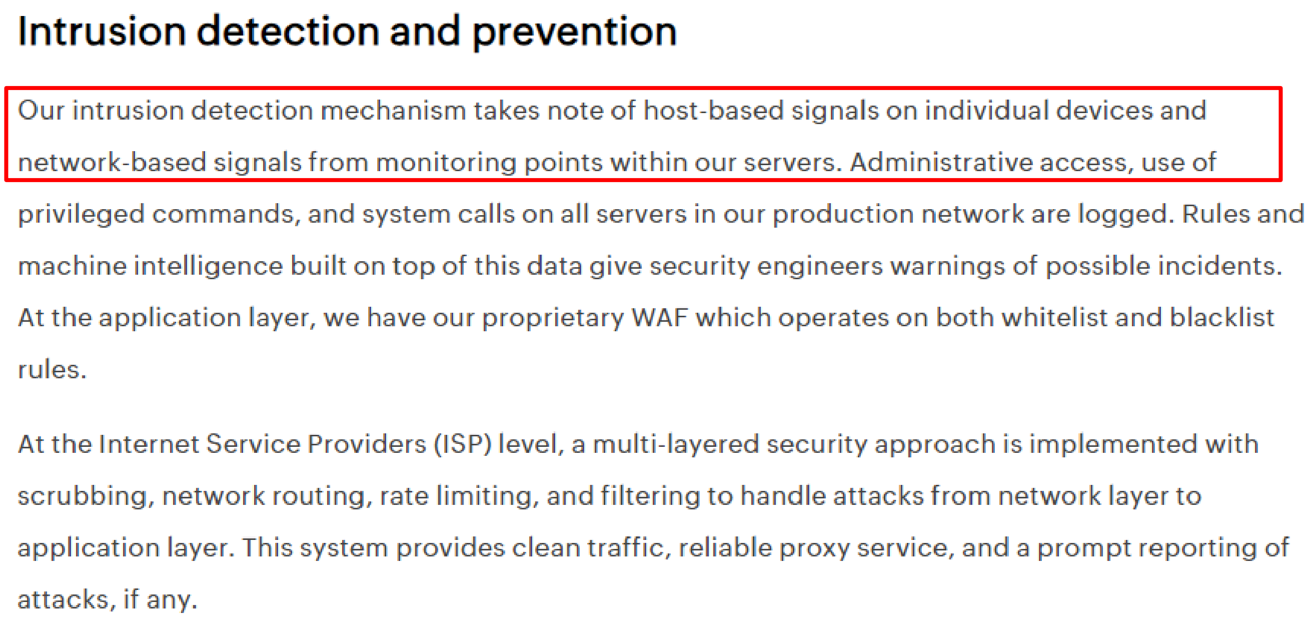
10,547,631 Claim 1	Evidence
An apparatus, comprising: an intrusion prevention system;	ManageEngine includes *an intrusion prevention system* (e.g., The vulnerability information collected across multiple endpoints which also includes antivirus option) Note: See, for example, the evidence above (where applicable) and below (emphasis added, if any):  Intrusion detection and prevention Our intrusion detection mechanism takes note of host-based signals on individual devices and network-based signals from monitoring points within our servers. Administrative access, use of privileged commands, and system calls on all servers in our production network are logged. Rules and machine intelligence built on top of this data give security engineers warnings of possible incidents. At the application layer, we have our proprietary WAF which operates on both whitelist and blacklist rules. At the Internet Service Providers (ISP) level, a multi-layered security approach is implemented with scrubbing, network routing, rate limiting, and filtering to handle attacks from network layer to application layer. This system provides clean traffic, reliable proxy service, and a prompt reporting of attacks, if any. https://www.manageengine.com/security.html?mesearch

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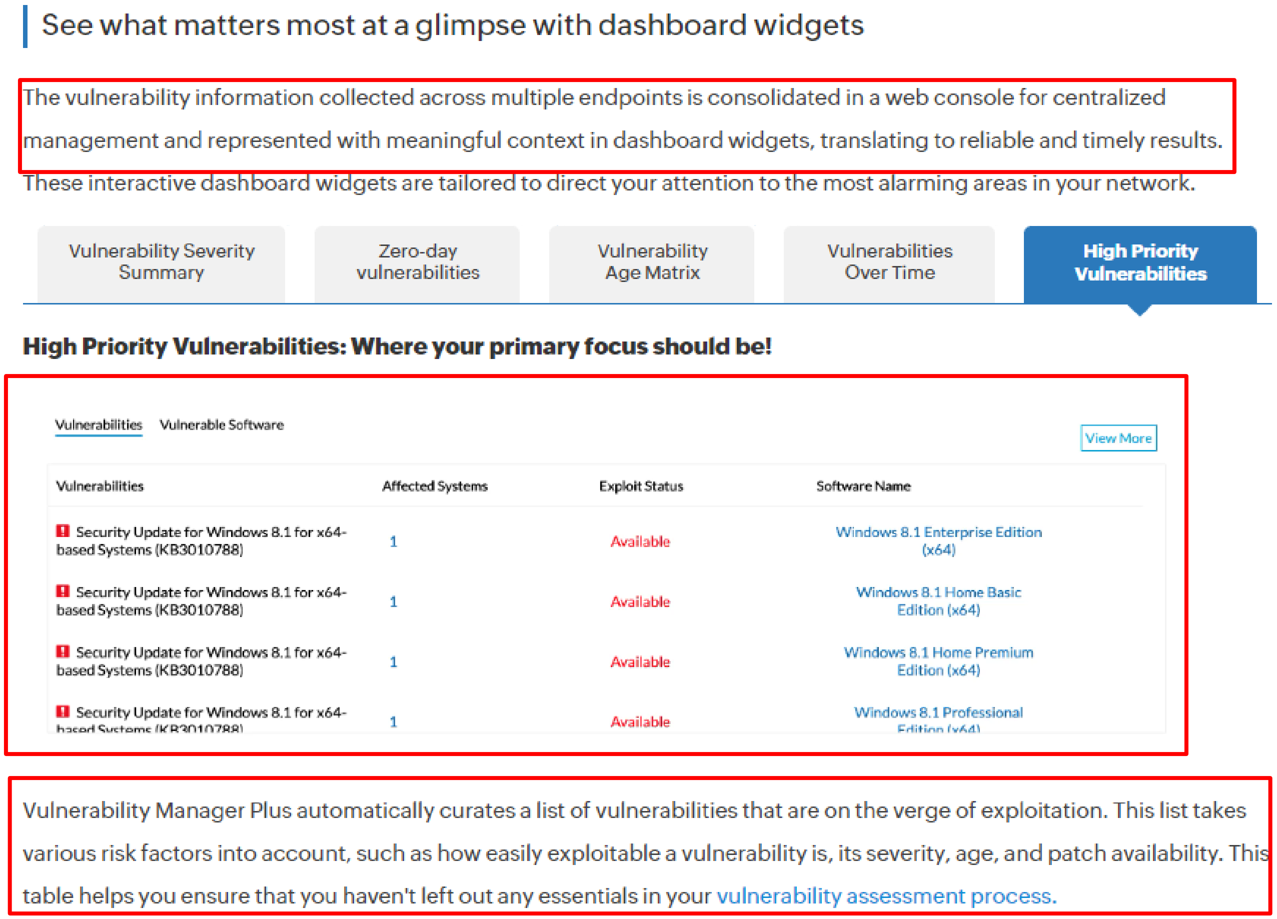

See what matters most at a glimpse with dashboard widgets

The vulnerability information collected across multiple endpoints is consolidated in a web console for centralized management and represented with meaningful context in dashboard widgets, translating to reliable and timely results. These interactive dashboard widgets are tailored to direct your attention to the most alarming areas in your network.

<b>High Priority Vulnerabilities: Where your primary focus should be!</b>

<table>
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Vulnerability Manager Plus automatically curates a list of vulnerabilities that are on the verge of exploitation. This list takes various risk factors into account, such as how easily exploitable a vulnerability is, its severity, age, and patch availability. This table helps you ensure that you haven't left out any essentials in your vulnerability assessment process.

https://www.manageengine.com/vulnerability-management/vulnerability-assessment.html
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<td>said intrusion prevention system:</td>
<td>ManageEngine <i>intrusion prevention system receives a result of at least one operation performed on at least one of a plurality of networked devices</i> (e.g., The vulnerability information collected by scanning operation) <i>the at least one operation based on first information from at least one first data storage identifying a</i></td>
</tr>
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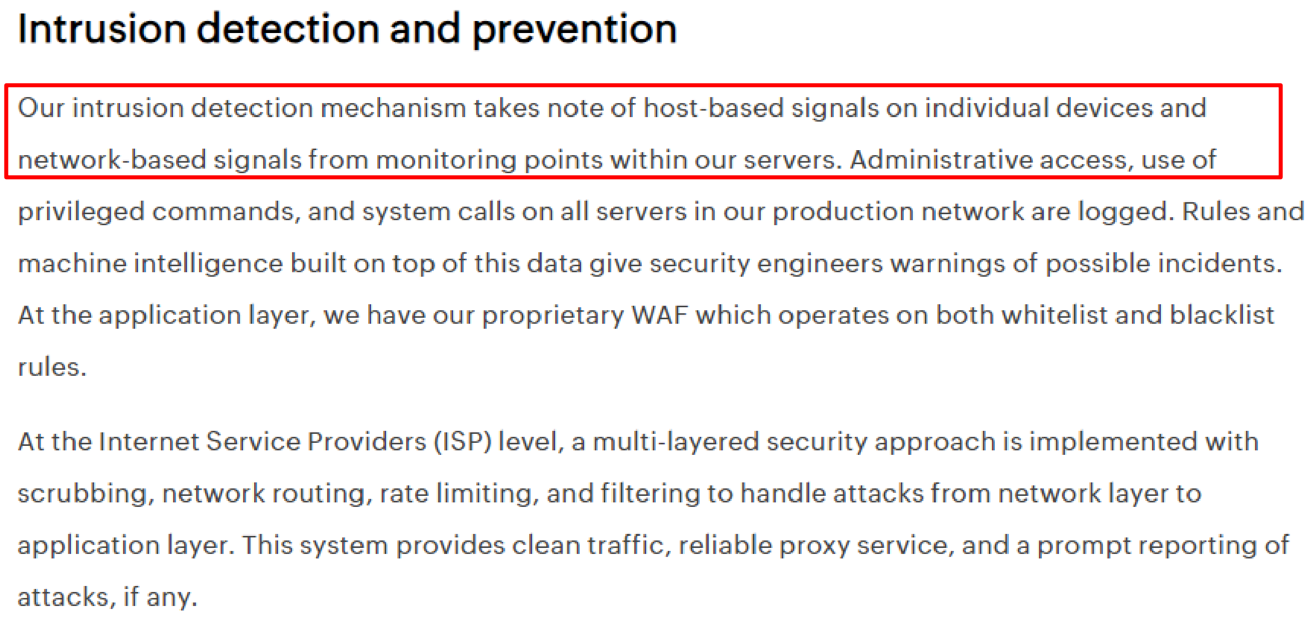
receives a result of at least one operation performed on at least one of a plurality of networked devices; the at least one operation based on first information from at least one first data storage identifying a plurality of existent vulnerabilities including at least one first existent vulnerability and at least one second existent vulnerability, the at least one operation configured for:	*plurality of existent vulnerabilities* (e.g., Known vulnerabilities) *including at least one first existent vulnerability and at least one second existent vulnerability* (e.g., Multiple vulnerability information collected from open source and stored in central database after verification and then system scan across multiple endpoints) Note: See, for example, the evidence above (where applicable) and below (emphasis added, if any):  **Intrusion detection and prevention** Our intrusion detection mechanism takes note of host-based signals on individual devices and network-based signals from monitoring points within our servers. Administrative access, use of privileged commands, and system calls on all servers in our production network are logged. Rules and machine intelligence built on top of this data give security engineers warnings of possible incidents. At the application layer, we have our proprietary WAF which operates on both whitelist and blacklist rules. At the Internet Service Providers (ISP) level, a multi-layered security approach is implemented with scrubbing, network routing, rate limiting, and filtering to handle attacks from network layer to application layer. This system provides clean traffic, reliable proxy service, and a prompt reporting of attacks, if any. https://www.manageengine.com/security.html?mesearch

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	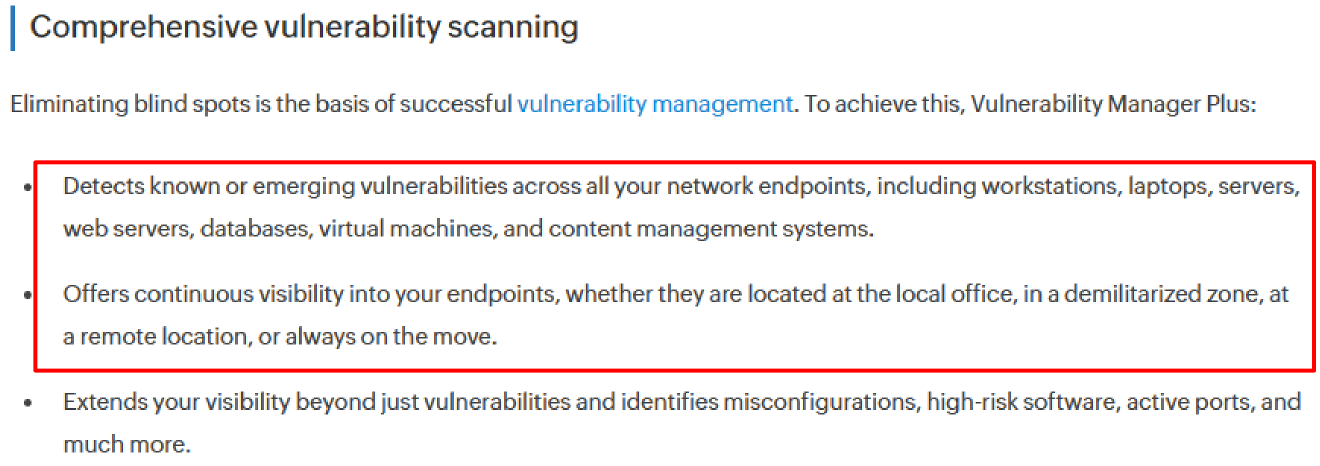 Comprehensive vulnerability scanning Eliminating blind spots is the basis of successful vulnerability management. To achieve this, Vulnerability Manager Plus: • Detects known or emerging vulnerabilities across all your network endpoints, including workstations, laptops, servers, web servers, databases, virtual machines, and content management systems. • Offers continuous visibility into your endpoints, whether they are located at the local office, in a demilitarized zone, at a remote location, or always on the move. • Extends your visibility beyond just vulnerabilities and identifies misconfigurations, high-risk software, active ports, and much more. https://www.manageengine.com/vulnerability-management/vulnerability-scanner.html

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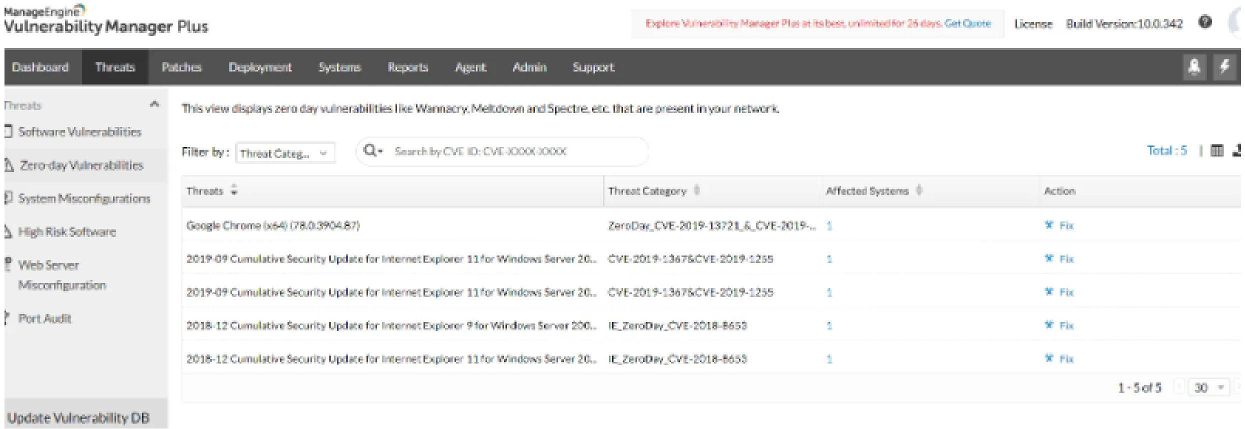
Leverage a dedicated view for zero-days

ManageEngine's security researchers constantly probe the internet for any details regarding new threats. As soon as details regarding zero-day vulnerabilities and publicly disclosed vulnerabilities come to light, the information is verified and updated to the central vulnerability database at once, and the data is synchronized to the Vulnerability Manager Plus server.



This view displays zero day vulnerabilities like Wannacry, Meltdown and Spectre, etc. that are present in your network.

Threats	Threat Category	Affected Systems	Action
Google Chrome (x64) (78.0.3904.87)	ZeroDay_CVE-2019-13721_&_CVE-2019-...	1	Fix
2019-09 Cumulative Security Update for Internet Explorer 11 for Windows Server 20...	CVE-2019-1367&CVE-2019-1255	1	Fix
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2018-12 Cumulative Security Update for Internet Explorer 9 for Windows Server 200...	IE_ZeroDay_CVE-2018-8653	1	Fix
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Vulnerability Manager Plus then scans your network for zero-day vulnerabilities and displays them in a dedicated view in the console, preventing them from being jumbled with less critical vulnerabilities. One of the components in the vulnerability dashboard keeps you constantly informed of how many zero-day vulnerabilities remain unresolved in your network. Furthermore, you can learn in detail about the latest zero-day vulnerability from tech articles available in the security newsfeed. *Subscribe to the Vulnerability Manager Plus pitstop to receive email notifications on the latest zero day attacks and related news*

https://www.manageengine.com/vulnerability-management/zero-day-vulnerability-mitigation.html

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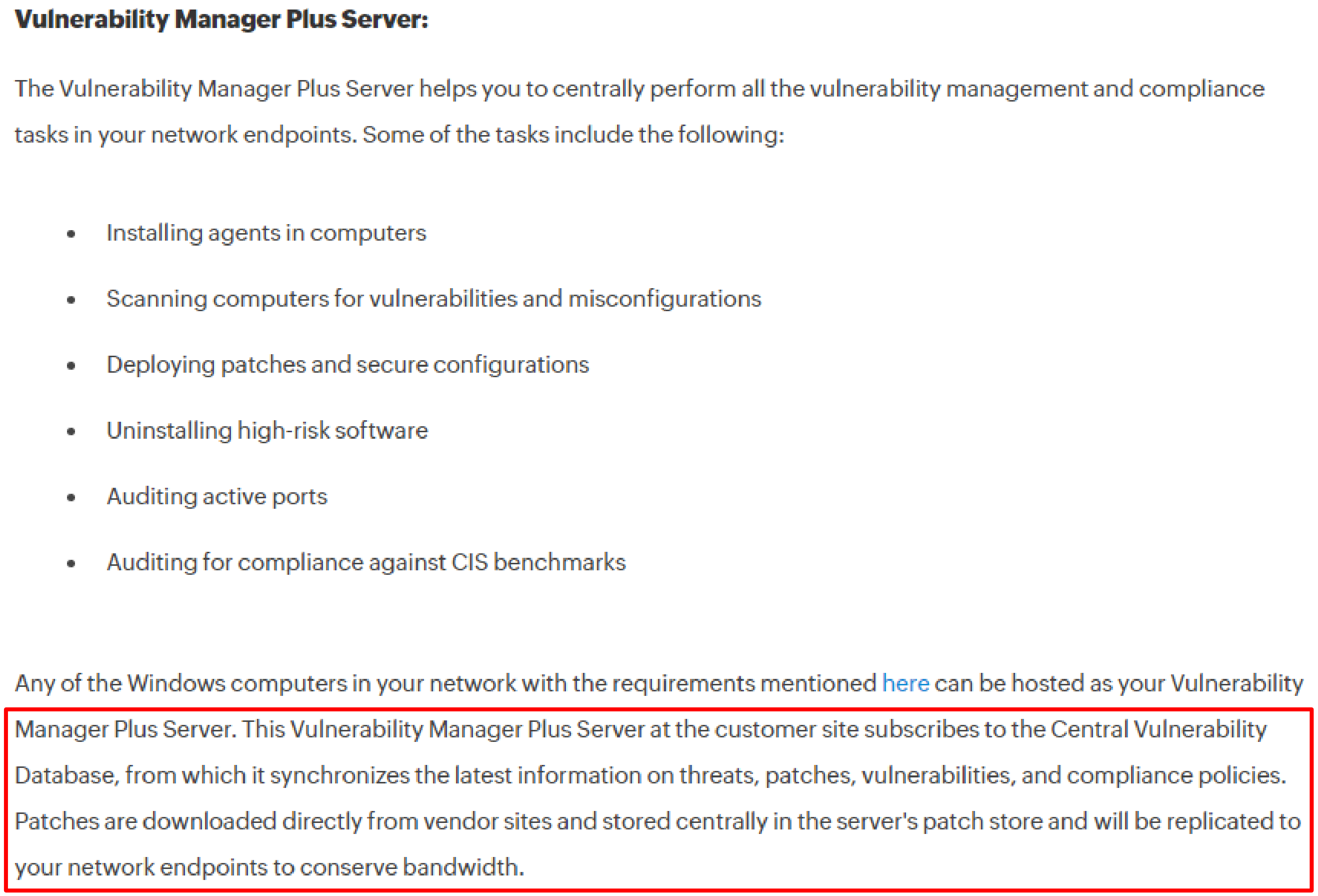

Vulnerability Manager Plus Server:

The Vulnerability Manager Plus Server helps you to centrally perform all the vulnerability management and compliance tasks in your network endpoints. Some of the tasks include the following:

- Installing agents in computers
- Scanning computers for vulnerabilities and misconfigurations
- Deploying patches and secure configurations
- Uninstalling high-risk software
- Auditing active ports
- Auditing for compliance against CIS benchmarks

Any of the Windows computers in your network with the requirements mentioned here can be hosted as your Vulnerability Manager Plus Server. This Vulnerability Manager Plus Server at the customer site subscribes to the Central Vulnerability Database, from which it synchronizes the latest information on threats, patches, vulnerabilities, and compliance policies. Patches are downloaded directly from vendor sites and stored centrally in the server's patch store and will be replicated to your network endpoints to conserve bandwidth.

https://www.manageengine.com/vulnerability-management/help/vulnerability-management-architecture.html#v1

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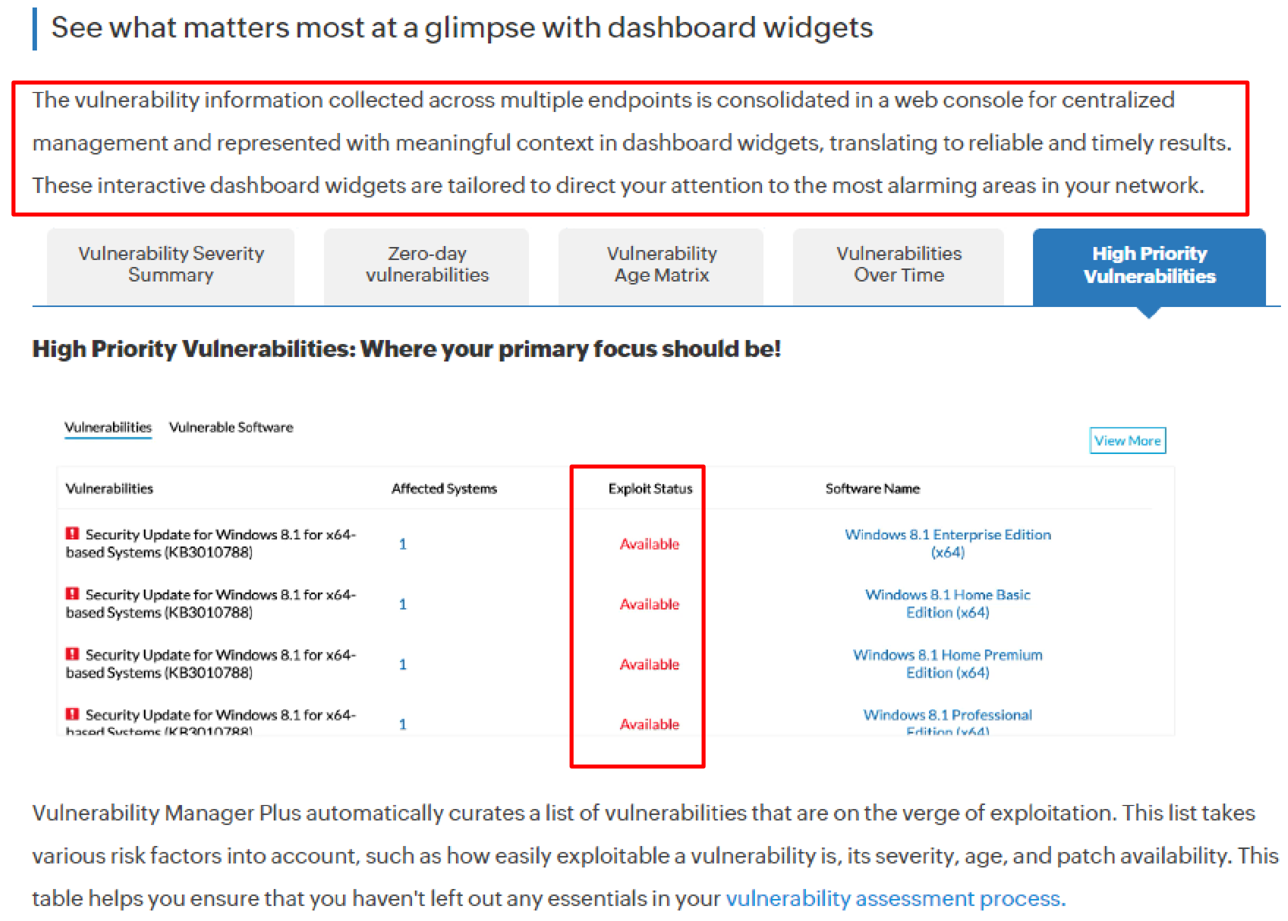

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Vulnerability Severity Summary
Zero-day vulnerabilities
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High Priority Vulnerabilities: Where your primary focus should be!

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https://www.manageengine.com/vulnerability-management/vulnerability-assessment.html

identifying at least one configuration associated with	ManageEngine *identifying at least one configuration associated with the at least one networked device* (e.g., The vulnerability information collected by scanning operation and identify a misconfiguration).

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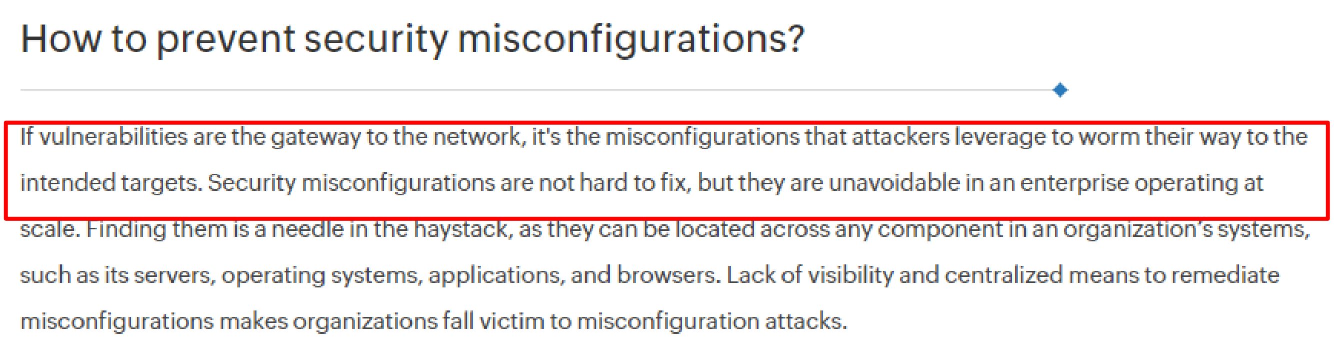
the at least one networked device, and	Note: See, for example, the evidence above (where applicable) and below (emphasis added, if any):  How to prevent security misconfigurations? If vulnerabilities are the gateway to the network, it's the misconfigurations that attackers leverage to worm their way to the intended targets. Security misconfigurations are not hard to fix, but they are unavoidable in an enterprise operating at scale. Finding them is a needle in the haystack, as they can be located across any component in an organization's systems, such as its servers, operating systems, applications, and browsers. Lack of visibility and centralized means to remediate misconfigurations makes organizations fall victim to misconfiguration attacks. https://www.manageengine.com/vulnerability-management/misconfiguration/?mesearch

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	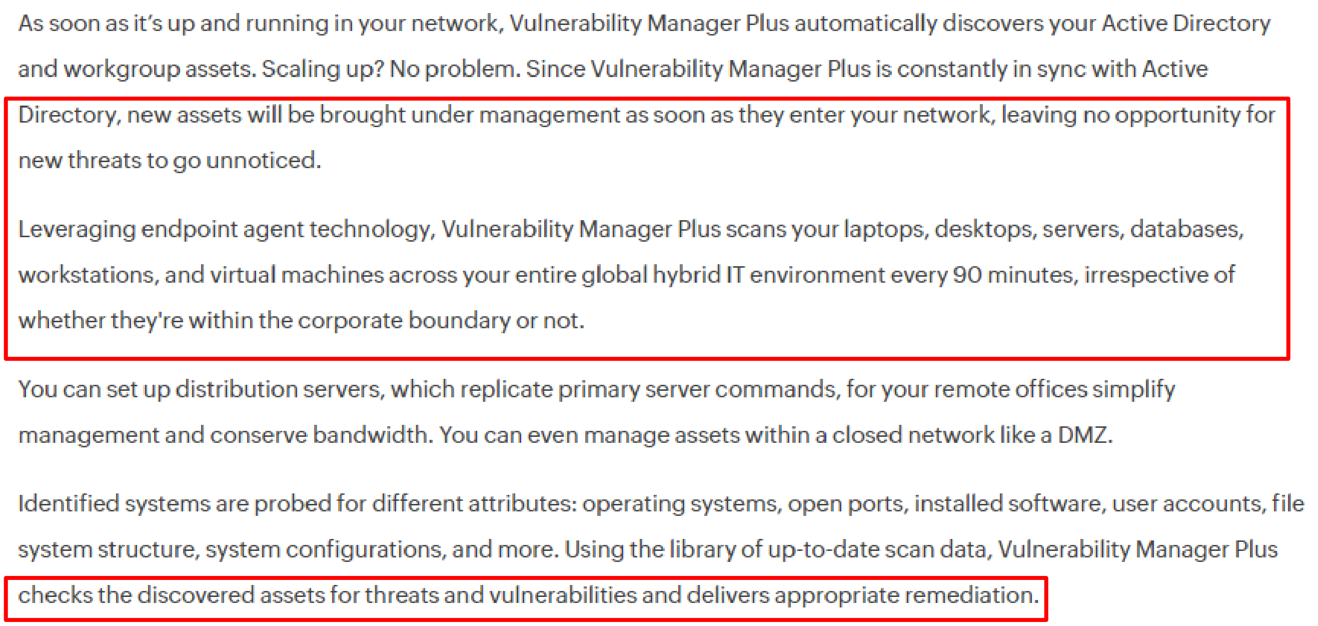 As soon as it's up and running in your network, Vulnerability Manager Plus automatically discovers your Active Directory and workgroup assets. Scaling up? No problem. Since Vulnerability Manager Plus is constantly in sync with Active Directory, new assets will be brought under management as soon as they enter your network, leaving no opportunity for new threats to go unnoticed. Leveraging endpoint agent technology, Vulnerability Manager Plus scans your laptops, desktops, servers, databases, workstations, and virtual machines across your entire global hybrid IT environment every 90 minutes, irrespective of whether they're within the corporate boundary or not. You can set up distribution servers, which replicate primary server commands, for your remote offices simplify management and conserve bandwidth. You can even manage assets within a closed network like a DMZ. Identified systems are probed for different attributes: operating systems, open ports, installed software, user accounts, file system structure, system configurations, and more. Using the library of up-to-date scan data, Vulnerability Manager Plus checks the discovered assets for threats and vulnerabilities and delivers appropriate remediation. https://www.manageengine.com/vulnerability-management/what-is-vulnerability-management.html
associating the at least one networked device with at least one particular vulnerability, based on the identified at least one configuration and the first information from the at least	ManageEngine *associating the at least one networked device with at least one particular vulnerability* (e.g., The vulnerability information collected by scanning operation and identify a misconfiguration). *based on the identified at least one configuration and the first information from the at least one first data storage identifying the plurality of existent vulnerabilities* (e.g., Multiple vulnerability information collected from open source and stored in central database after verification). *such that second information associated with the result is stored, the second information relating to the association between the at least one particular vulnerability and the at least one networked device* (e.g., The vulnerability information collected across

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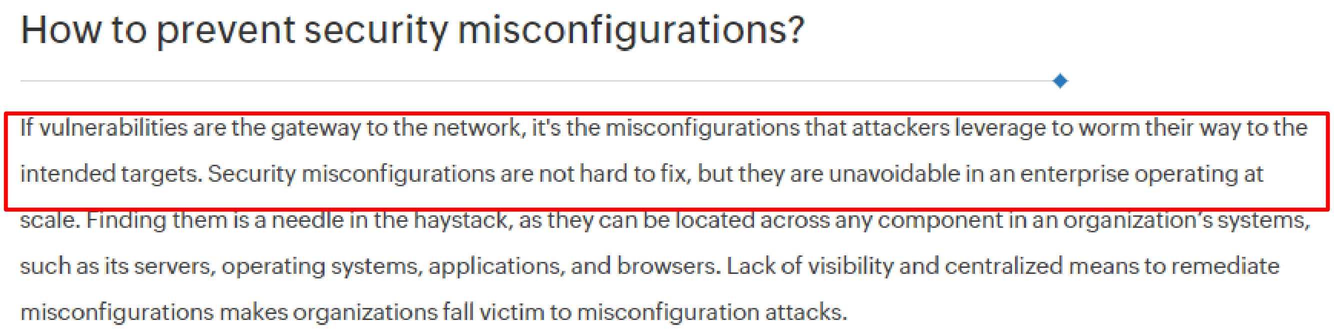
one first data storage identifying the plurality of existent vulnerabilities, such that second information associated with the result is stored, the second information relating to the association between the at least one particular vulnerability and the at least one networked device;	multiple endpoints is consolidated in a web console for centralized management and if vulnerabilities exist then displays them in a dedicated view in the console with its fix) Note: See, for example, the evidence above (where applicable) and below (emphasis added, if any):  How to prevent security misconfigurations? If vulnerabilities are the gateway to the network, it's the misconfigurations that attackers leverage to worm their way to the intended targets. Security misconfigurations are not hard to fix, but they are unavoidable in an enterprise operating at scale. Finding them is a needle in the haystack, as they can be located across any component in an organization's systems, such as its servers, operating systems, applications, and browsers. Lack of visibility and centralized means to remediate misconfigurations makes organizations fall victim to misconfiguration attacks. https://www.manageengine.com/vulnerability-management/misconfiguration/?mesearch

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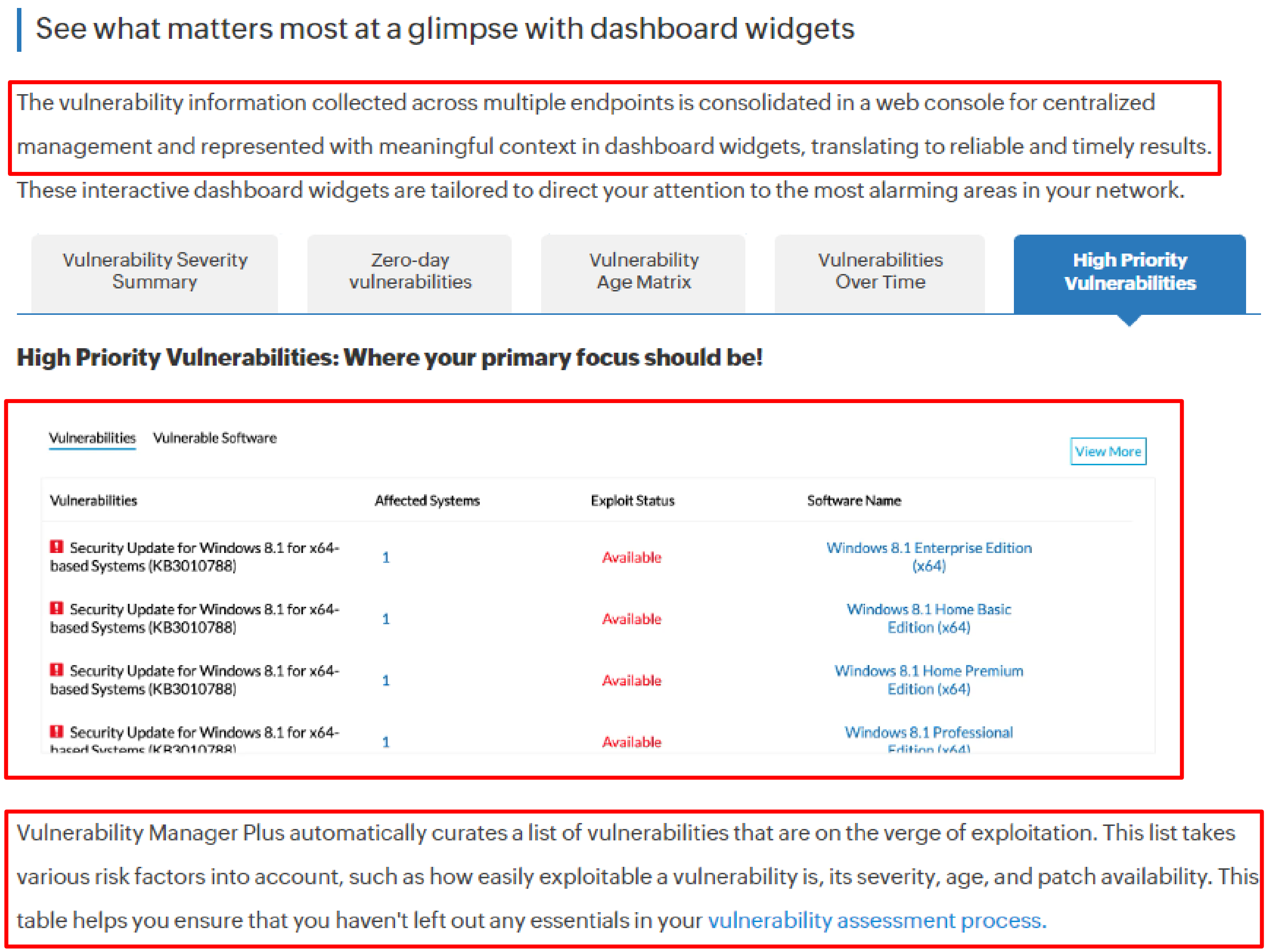

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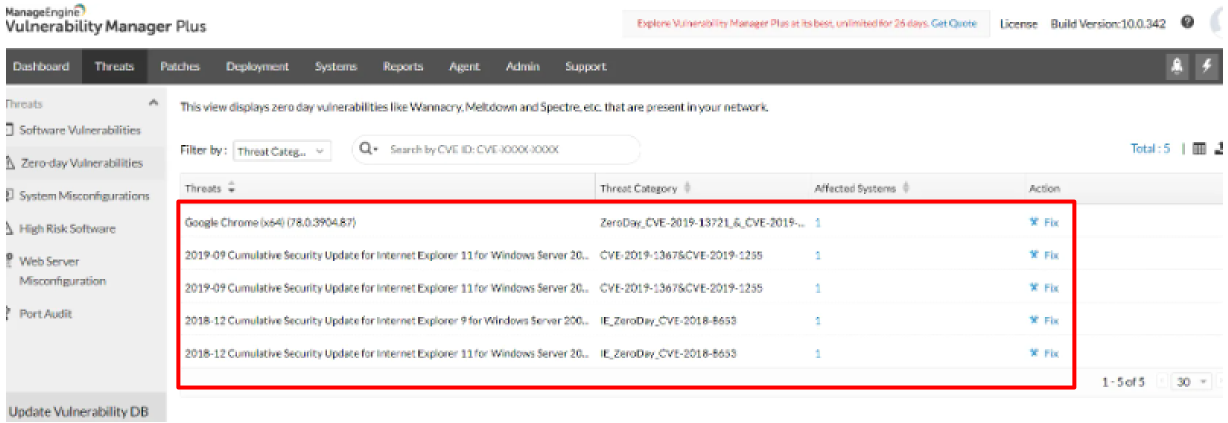

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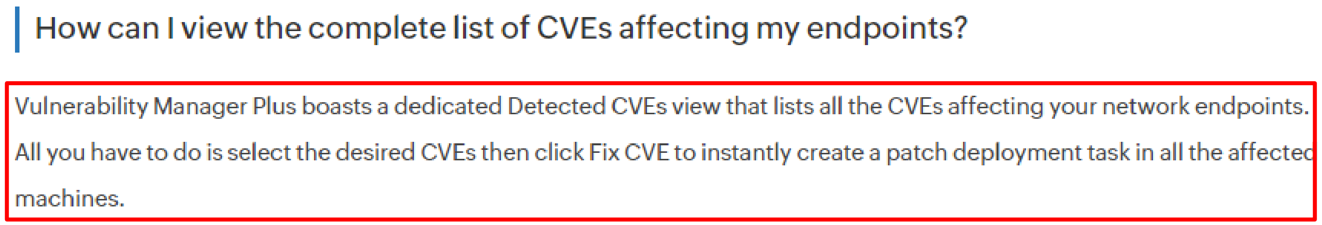
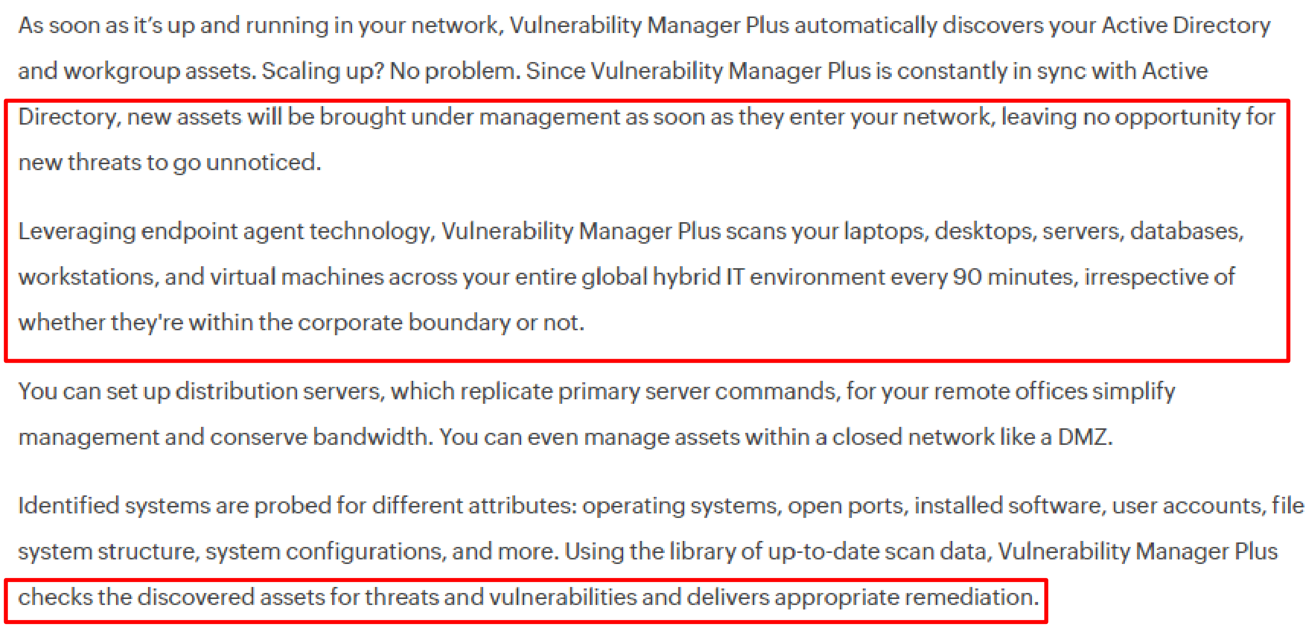
	 How can I view the complete list of CVEs affecting my endpoints? Vulnerability Manager Plus boasts a dedicated Detected CVEs view that lists all the CVEs affecting your network endpoints. All you have to do is select the desired CVEs then click Fix CVE to instantly create a patch deployment task in all the affected machines. https://www.manageengine.com/vulnerability-management/vulnerability-assessment.html  As soon as it's up and running in your network, Vulnerability Manager Plus automatically discovers your Active Directory and workgroup assets. Scaling up? No problem. Since Vulnerability Manager Plus is constantly in sync with Active Directory, new assets will be brought under management as soon as they enter your network, leaving no opportunity for new threats to go unnoticed. Leveraging endpoint agent technology, Vulnerability Manager Plus scans your laptops, desktops, servers, databases, workstations, and virtual machines across your entire global hybrid IT environment every 90 minutes, irrespective of whether they're within the corporate boundary or not. You can set up distribution servers, which replicate primary server commands, for your remote offices simplify management and conserve bandwidth. You can even manage assets within a closed network like a DMZ. Identified systems are probed for different attributes: operating systems, open ports, installed software, user accounts, file system structure, system configurations, and more. Using the library of up-to-date scan data, Vulnerability Manager Plus checks the discovered assets for threats and vulnerabilities and delivers appropriate remediation. https://www.manageengine.com/vulnerability-management/what-is-vulnerability-management.html

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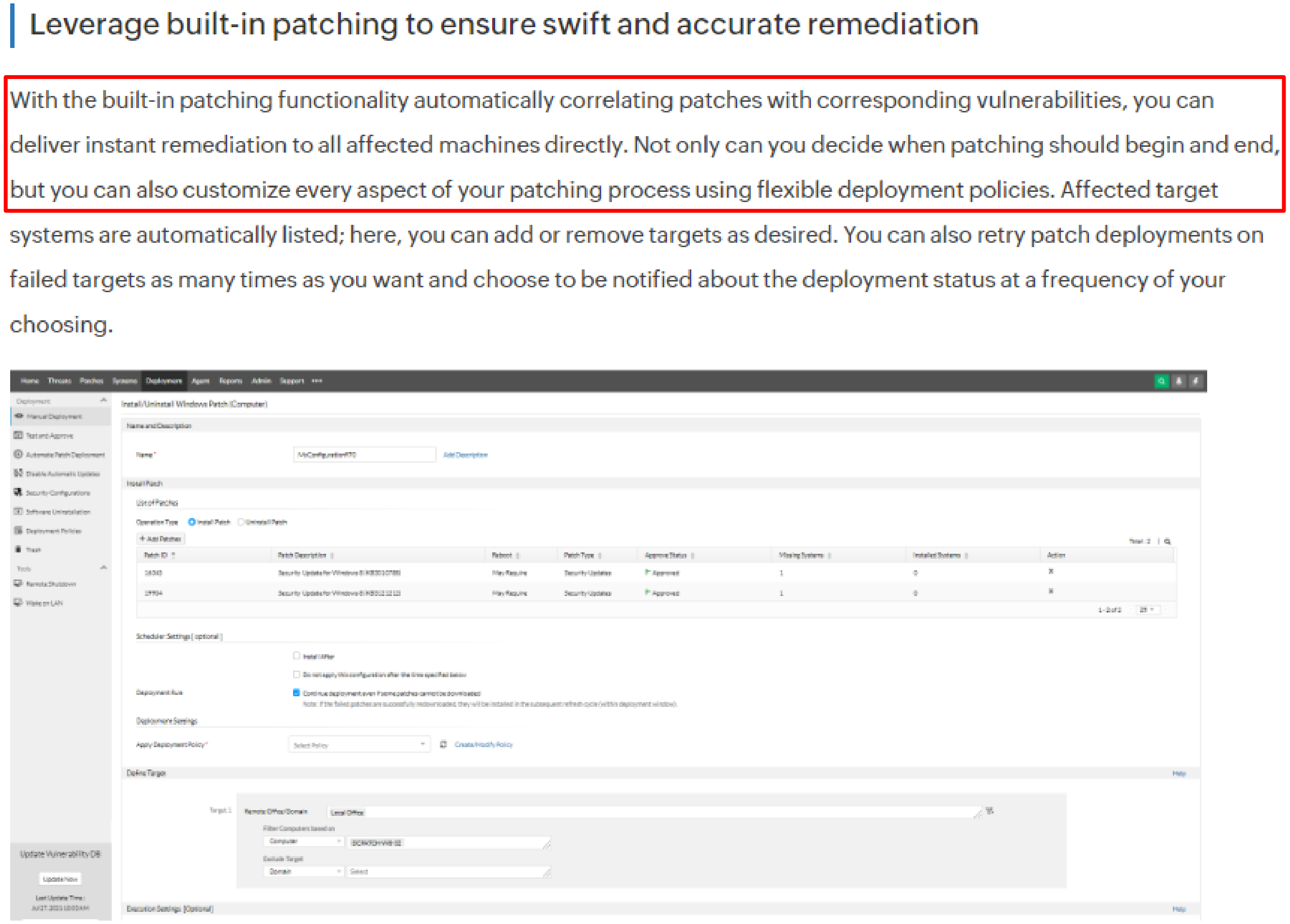

Leverage built-in patching to ensure swift and accurate remediation

With the built-in patching functionality automatically correlating patches with corresponding vulnerabilities, you can deliver instant remediation to all affected machines directly. Not only can you decide when patching should begin and end, but you can also customize every aspect of your patching process using flexible deployment policies. Affected target systems are automatically listed; here, you can add or remove targets as desired. You can also retry patch deployments on failed targets as many times as you want and choose to be notified about the deployment status at a frequency of your choosing.

Install/Uninstall Windows Patch (Computer)

Name and Description

Name* MyConfiguration770

Install Patch

List of Patches

Operation Type ● Install Patch ○ Uninstall Patch

Total : 2

Patch ID	Patch Description	Reboot	Patch Type	Approve Status	Missing Systems	Installed Systems	Action
16343	Security Update for Windows 8.1 (KB3010788)	May Require	Security Updates	Approved	1	0	✕
19904	Security Update for Windows 8.1 (KB3012122)	May Require	Security Updates	Approved	1	0	✕

1 - 2 of 2 25

Scheduler Settings [optional]

□ Install After

□ Do not apply this configuration after the time specified below

Deployment Rule ☑ Continue deployment even if some patches cannot be downloaded

Note : If the failed patches are successfully redownloaded, they will be installed in the subsequent refresh cycle (within deployment window).

Deployment Settings

Apply Deployment Policy* Select Policy

Define Target

Target 1 Remote Office/Domain Local Office

Filter Computers based on Computer BOMATCH-W8-02

Exclude Target Domain Select

Execution Settings [Optional]

Last Update Time : JUL 27, 2021 10:00 AM

https://www.manageengine.com/vulnerability-management/vulnerability-assessment.html
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<td>causes to display, via at least one user interface, a plurality</td>
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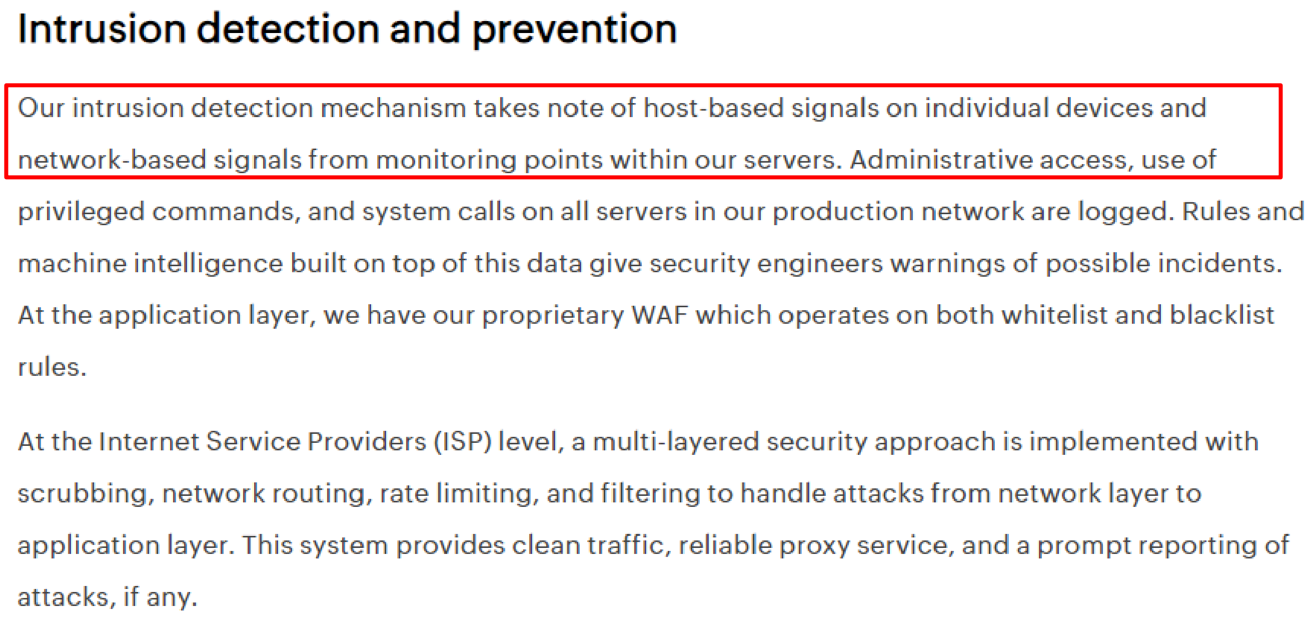
of techniques including a first technique for utilizing an intrusion prevention system component for occurrence mitigation, and a second technique for utilizing a firewall for occurrence mitigation;	*intrusion prevention system component for occurrence mitigation* (e.g., ManageEngine Vulnerability Manager Plus includes antivirus option), *and a second technique for utilizing a firewall for occurrence mitigation* (e.g., ManageEngine Vulnerability Manager Plus includes firewall option). The ManageEngine provides flexibility to choose the devices for applying the different policies or mitigation techniques according to the requirements. Note: See, for example, the evidence above (where applicable) and below (emphasis added, if any):  Intrusion detection and prevention Our intrusion detection mechanism takes note of host-based signals on individual devices and network-based signals from monitoring points within our servers. Administrative access, use of privileged commands, and system calls on all servers in our production network are logged. Rules and machine intelligence built on top of this data give security engineers warnings of possible incidents. At the application layer, we have our proprietary WAF which operates on both whitelist and blacklist rules. At the Internet Service Providers (ISP) level, a multi-layered security approach is implemented with scrubbing, network routing, rate limiting, and filtering to handle attacks from network layer to application layer. This system provides clean traffic, reliable proxy service, and a prompt reporting of attacks, if any. https://www.manageengine.com/security.html?mesearch

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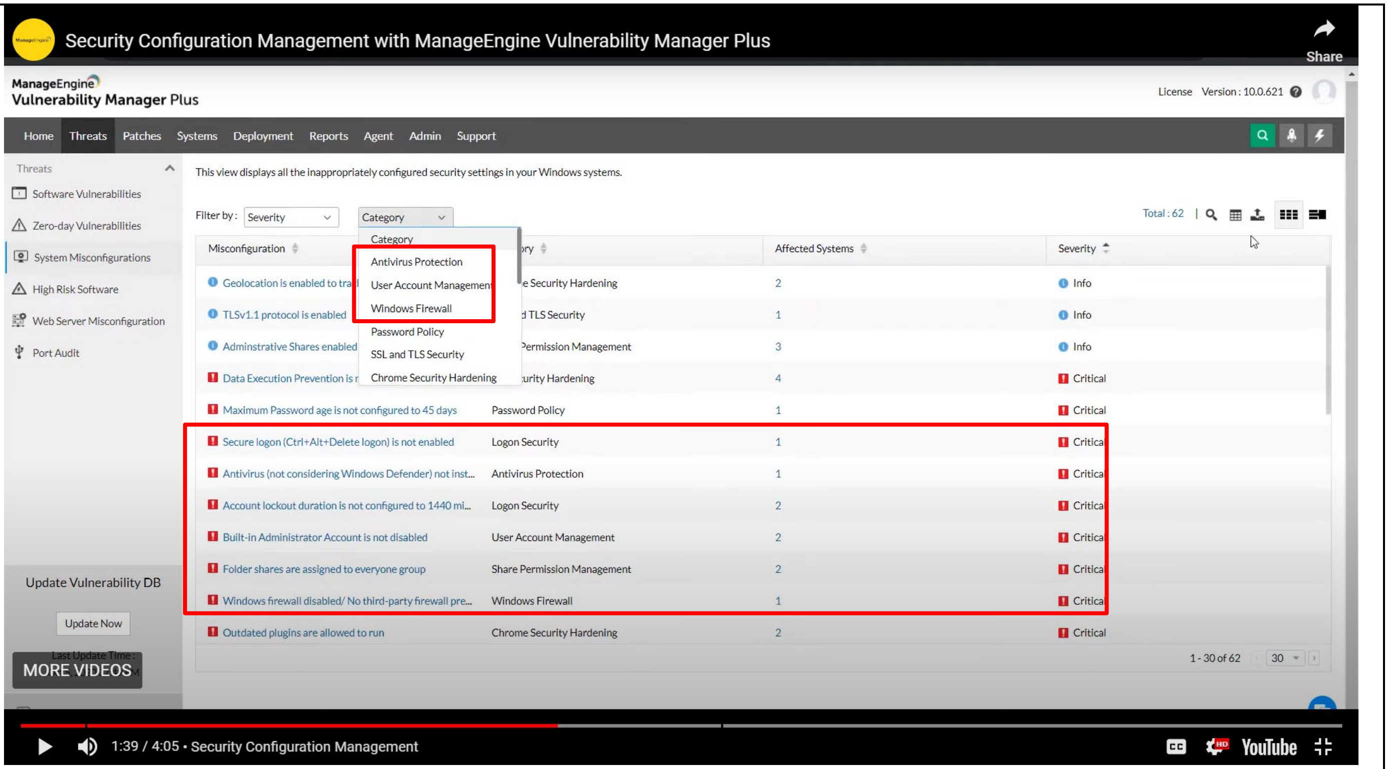


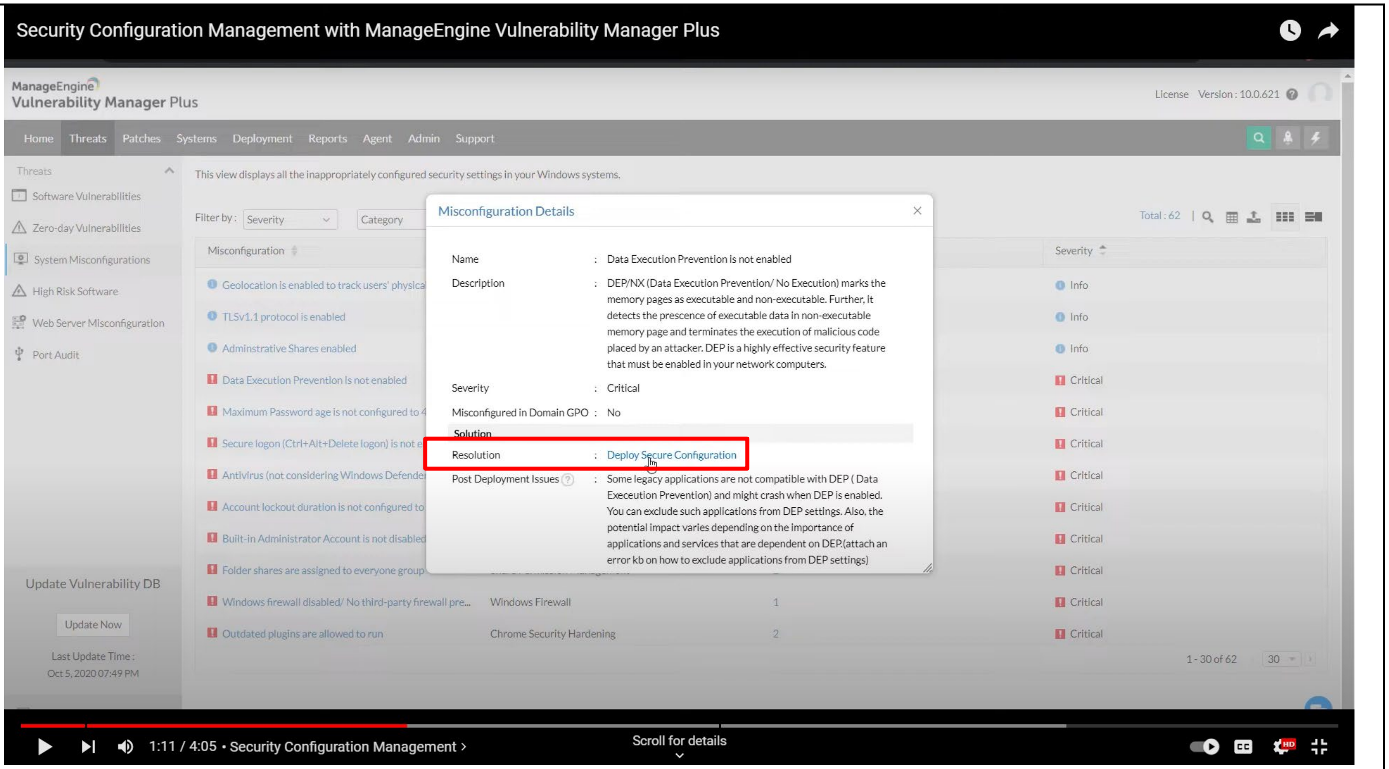
This view displays all the inappropriately configured security settings in your Windows systems.

Misconfiguration	ory	Affected Systems	Severity
Geolocation is enabled to tra	e Security Hardening	2	Info
TLSv1.1 protocol is enabled	d TLS Security	1	Info
Adminstrative Shares enabled	Permission Management	3	Info
Data Execution Prevention is r	urity Hardening	4	Critical
Maximum Password age is not configured to 45 days	Password Policy	1	Critical
Secure logon (Ctrl+Alt+Delete logon) is not enabled	Logon Security	1	Critica
Antivirus (not considering Windows Defender) not inst...	Antivirus Protection	1	Critica
Account lockout duration is not configured to 1440 mi...	Logon Security	2	Critica
Built-in Administrator Account is not disabled	User Account Management	2	Critica
Folder shares are assigned to everyone group	Share Permission Management	2	Critica
Windows firewall disabled/ No third-party firewall pre...	Windows Firewall	1	Critica
Outdated plugins are allowed to run	Chrome Security Hardening	2	Critical

https://www.youtube.com/watch?v=p2Oh87NruMo&t=98s

EXHIBIT 13

U.S. Patent No 10,547,631 v. Zoho



This view displays all the inappropriately configured security settings in your Windows systems.

Misconfiguration			Severity
Geolocation is enabled to track users' physica			Info
TLSv1.1 protocol is enabled			Info
Adminstrative Shares enabled			Info
Data Execution Prevention is not enabled			Critical
Maximum Password age is not configured to 4			Critical
Secure logon (Ctrl+Alt+Delete logon) is not e			Critical
Antivirus (not considering Windows Defende			Critical
Account lockout duration is not configured to			Critical
Built-in Administrator Account is not disabled			Critical
Folder shares are assigned to everyone group			Critical
Windows firewall disabled/ No third-party firewall pre...	Windows Firewall	1	Critical
Outdated plugins are allowed to run	Chrome Security Hardening	2	Critical

1 - 30 of 62 30

Last Update Time : Oct 5, 2020 07:49 PM

Misconfiguration Details

Name : Data Execution Prevention is not enabled

Description : DEP/NX (Data Execution Prevention/ No Execution) marks the memory pages as executable and non-executable. Further, it detects the prescence of executable data in non-executable memory page and terminates the execution of malicious code placed by an attacker. DEP is a highly effective security feature that must be enabled in your network computers.

Severity : Critical

Misconfigured in Domain GPO : No

Solution

Resolution : Deploy Secure Configuration

Post Deployment Issues : Some legacy applications are not compatible with DEP (Data Exeecution Prevention) and might crash when DEP is enabled. You can exclude such applications from DEP settings. Also, the potential impact varies depending on the importance of applications and services that are dependent on DEP.(attach an error kb on how to exclude applications from DEP settings)

https://www.youtube.com/watch?v=p2Oh87NruMo&t=53s

EXHIBIT 13

U.S. Patent No 10,547,631 v. Zoho

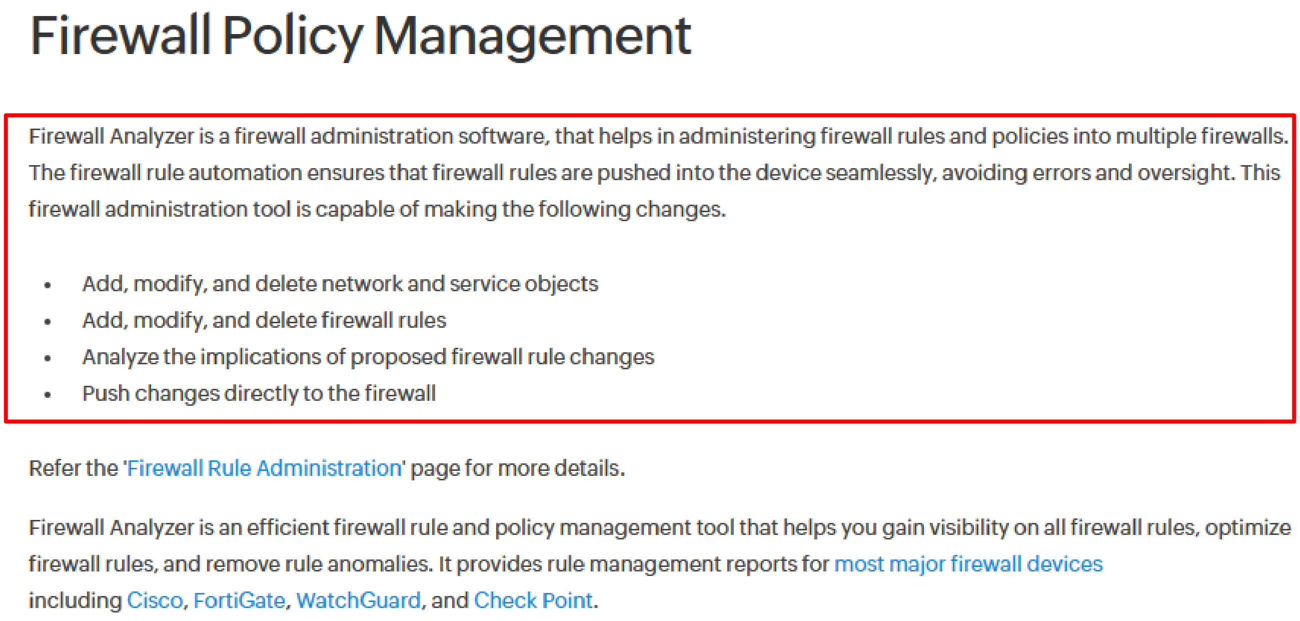
	 Firewall Policy Management Firewall Analyzer is a firewall administration software, that helps in administering firewall rules and policies into multiple firewalls. The firewall rule automation ensures that firewall rules are pushed into the device seamlessly, avoiding errors and oversight. This firewall administration tool is capable of making the following changes. • Add, modify, and delete network and service objects • Add, modify, and delete firewall rules • Analyze the implications of proposed firewall rule changes • Push changes directly to the firewall Refer the 'Firewall Rule Administration' page for more details. Firewall Analyzer is an efficient firewall rule and policy management tool that helps you gain visibility on all firewall rules, optimize firewall rules, and remove rule anomalies. It provides rule management reports for most major firewall devices including Cisco, FortiGate, WatchGuard, and Check Point. https://www.manageengine.com/products/firewall/firewall-rule-management.html

EXHIBIT 13

U.S. Patent No 10,547,631 v. Zoho

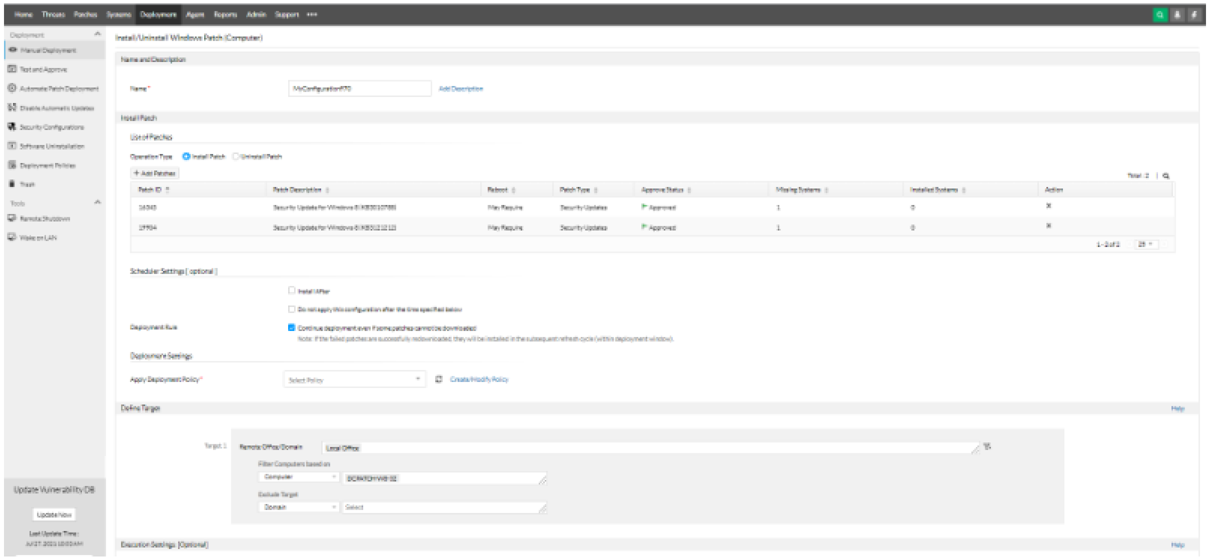
	Leverage built-in patching to ensure swift and accurate remediation With the built-in patching functionality automatically correlating patches with corresponding vulnerabilities, you can deliver instant remediation to all affected machines directly. Not only can you decide when patching should begin and end, but you can also customize every aspect of your patching process using flexible deployment policies. Affected target systems are automatically listed; here, you can add or remove targets as desired. You can also retry patch deployments on failed targets as many times as you want and choose to be notified about the deployment status at a frequency of your choosing.  Install/Uninstall Windows Patch (Computer) Name and Description Name* MyConfiguration770 Add Description Install Patch List of Patches Operation Type ● Install Patch ○ Uninstall Patch + Add Patches Total : 2 Patch ID | Patch Description | Reboot | Patch Type | Approve Status | Missing Systems | Installed Systems | Action 16343 | Security Update for Windows 8 (KB3010788) | May Require | Security Updates | Approved | 1 | 0 | ✕ 17934 | Security Update for Windows 8 (KB3121212) | May Require | Security Updates | Approved | 1 | 0 | ✕ 1 - 2 of 2 25 Scheduler Settings [optional] □ Install After □ Do not apply this configuration after the time specified below Deployment Rule ☑ Continue deployment even if some patches cannot be downloaded Note: If the failed patches are successfully redownloaded, they will be installed in the subsequent refresh cycle (within deployment window). Deployment Settings Apply Deployment Policy* Select Policy Create/Modify Policy Define Target Target 1 Remote Office/Domain Local Office Filter Computers based on Computer SCRATCHWIN-32 Exclude Target Domain Select Execution Settings [Optional] Home Threats Patches Systems Deployment Agent Reports Admin Support ••• Deployment Manual Deployment Test and Approve Automate Patch Deployment Disable Automatic Updates Security Configurations Software Uninstallation Deployment Policies Trash Tools Remote Shutdown Wake on LAN Update Vulnerability DB Update Now Last Update Time : Jul 27, 2021 10:00 AM Help https://www.manageengine.com/vulnerability-management/vulnerability-assessment.html
allows receipt of:	ManageEngine *allows receipt* , *user input causing selection of the first technique for utilizing the intrusion prevention system component for occurrence mitigation* (e.g., ManageEngine Vulnerability Manager Plus

EXHIBIT 13

U.S. Patent No 10,547,631 v. Zoho

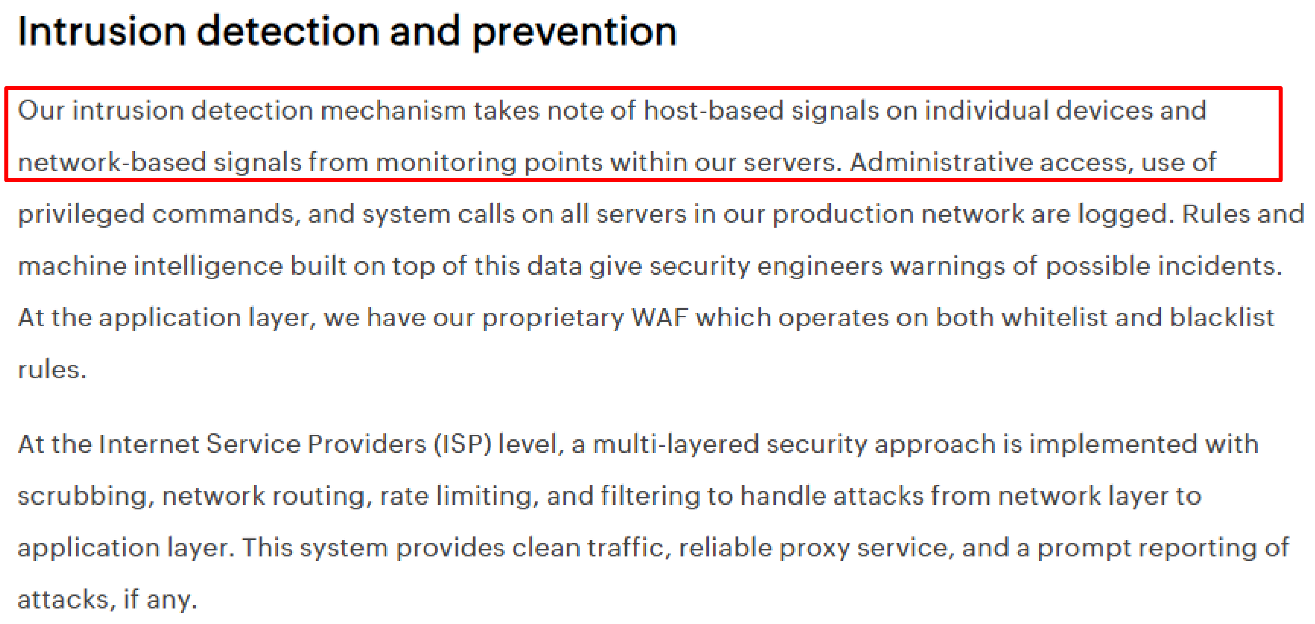
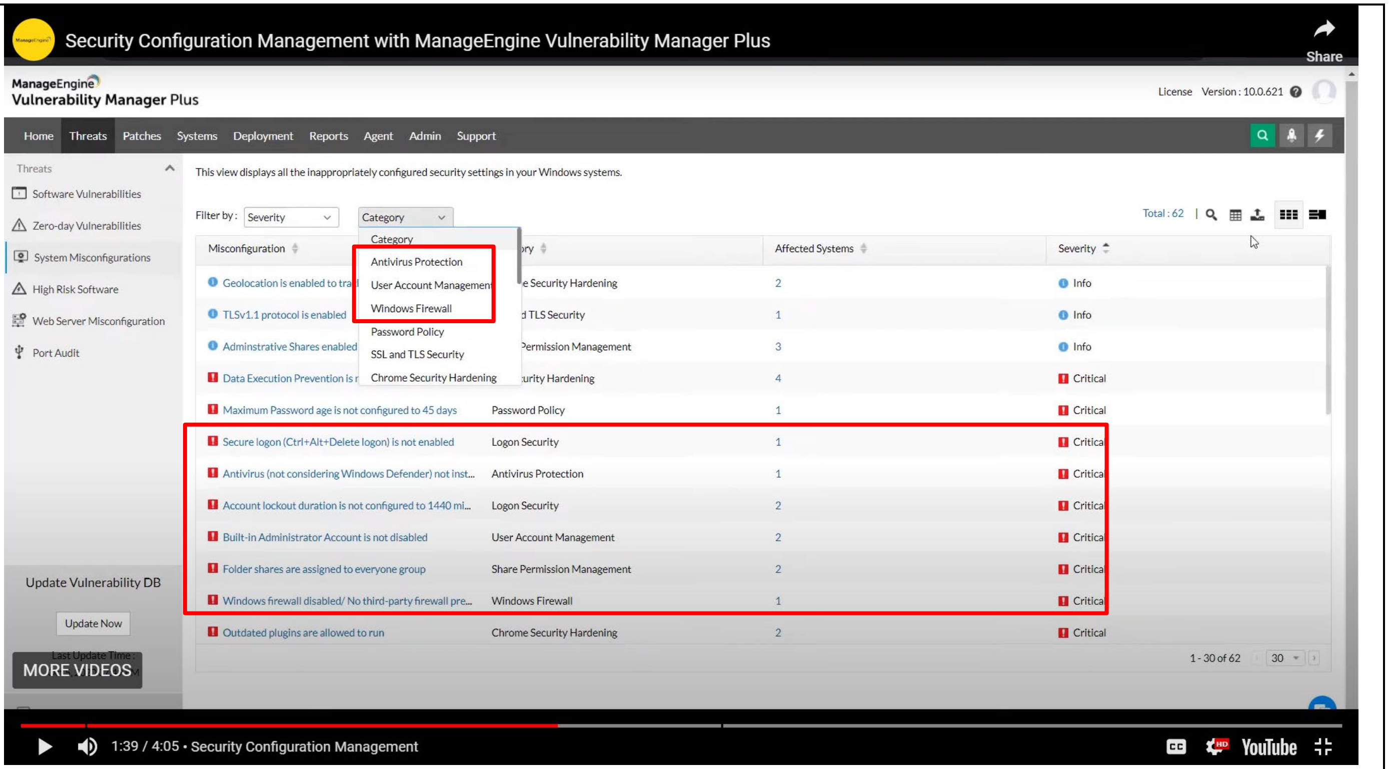
user input causing selection of the first technique for utilizing the intrusion prevention system component for occurrence mitigation; user input causing selection of the second technique for utilizing the firewall for occurrence mitigation;	includes web consol on which user can select antivirus option) , *user input causing selection of the second technique for utilizing the firewall for occurrence mitigation* (e.g., ManageEngine Vulnerability Manager Plus includes firewall option). The ManageEngine provides flexibility to choose the devices for applying the different policies or mitigation techniques according to the requirements. Note: See, for example, the evidence above (where applicable) and below (emphasis added, if any):  **Intrusion detection and prevention** Our intrusion detection mechanism takes note of host-based signals on individual devices and network-based signals from monitoring points within our servers. Administrative access, use of privileged commands, and system calls on all servers in our production network are logged. Rules and machine intelligence built on top of this data give security engineers warnings of possible incidents. At the application layer, we have our proprietary WAF which operates on both whitelist and blacklist rules. At the Internet Service Providers (ISP) level, a multi-layered security approach is implemented with scrubbing, network routing, rate limiting, and filtering to handle attacks from network layer to application layer. This system provides clean traffic, reliable proxy service, and a prompt reporting of attacks, if any. https://www.manageengine.com/security.html?mesearch

EXHIBIT 13

U.S. Patent No 10,547,631 v. Zoho



Security Configuration Management with ManageEngine Vulnerability Manager Plus

This view displays all the inappropriately configured security settings in your Windows systems.

Filter by : Severity Category

Category
Antivirus Protection
User Account Managemen
Windows Firewall
Password Policy
SSL and TLS Security
Chrome Security Hardening

Total : 62

Misconfiguration	ry	Affected Systems	Severity
Geolocation is enabled to tra	e Security Hardening	2	Info
TLSv1.1 protocol is enabled	d TLS Security	1	Info
Adminstrative Shares enabled	Permission Management	3	Info
Data Execution Prevention is r	urity Hardening	4	Critical
Maximum Password age is not configured to 45 days	Password Policy	1	Critical
Secure logon (Ctrl+Alt+Delete logon) is not enabled	Logon Security	1	Critica
Antivirus (not considering Windows Defender) not inst...	Antivirus Protection	1	Critica
Account lockout duration is not configured to 1440 mi...	Logon Security	2	Critica
Built-in Administrator Account is not disabled	User Account Management	2	Critica
Folder shares are assigned to everyone group	Share Permission Management	2	Critica
Windows firewall disabled/ No third-party firewall pre...	Windows Firewall	1	Critica
Outdated plugins are allowed to run	Chrome Security Hardening	2	Critical

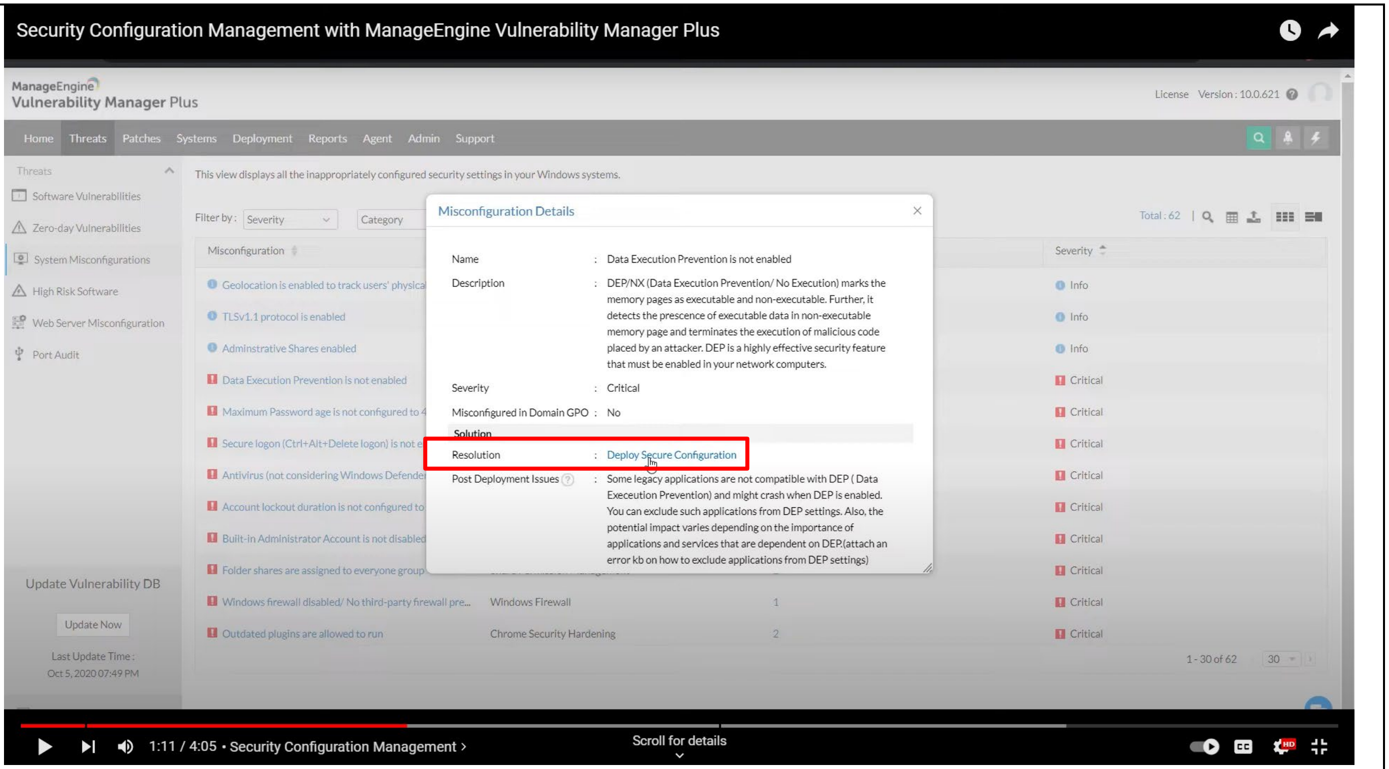
1 - 30 of 62 30

1:39 / 4:05 • Security Configuration Management

https://www.youtube.com/watch?v=p2Oh87NruMo&t=98s

EXHIBIT 13

U.S. Patent No 10,547,631 v. Zoho

	 https://www.youtube.com/watch?v=p2Oh87NruMo&t=53s

Security Configuration Management with ManageEngine Vulnerability Manager Plus

This view displays all the inappropriately configured security settings in your Windows systems.

Misconfiguration Details

Name : Data Execution Prevention is not enabled

Description : DEP/NX (Data Execution Prevention/ No Execution) marks the memory pages as executable and non-executable. Further, it detects the prescence of executable data in non-executable memory page and terminates the execution of malicious code placed by an attacker. DEP is a highly effective security feature that must be enabled in your network computers.

Severity : Critical

Misconfigured in Domain GPO : No

Solution

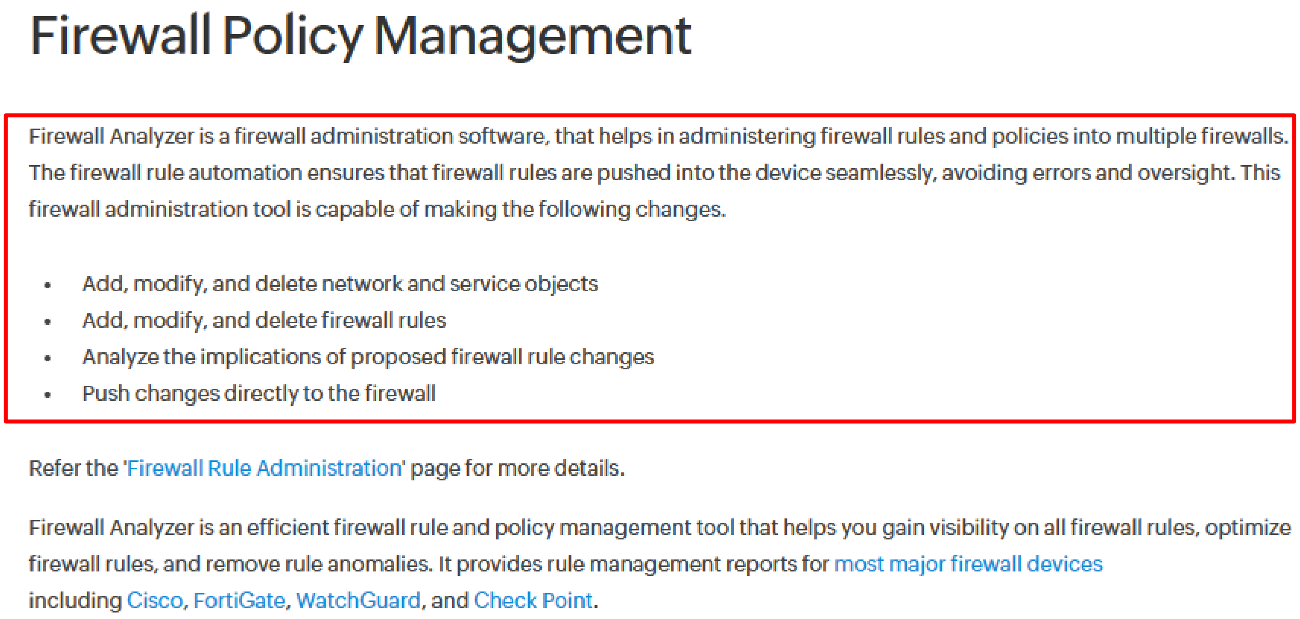
Resolution : Deploy Secure Configuration

Post Deployment Issues : Some legacy applications are not compatible with DEP (Data Exeecution Prevention) and might crash when DEP is enabled. You can exclude such applications from DEP settings. Also, the potential impact varies depending on the importance of applications and services that are dependent on DEP.(attach an error kb on how to exclude applications from DEP settings)

ManageEngine
Vulnerability Manager Plus
License Version : 10.0.621
Home Threats Patches Systems Deployment Reports Agent Admin Support
Threats
Software Vulnerabilities
Zero-day Vulnerabilities
System Misconfigurations
High Risk Software
Web Server Misconfiguration
Port Audit
Update Vulnerability DB
Update Now
Last Update Time : Oct 5, 2020 07:49 PM
Filter by : Severity Category
Total : 62
Misconfiguration
Severity
Geolocation is enabled to track users' physica
TLSv1.1 protocol is enabled
Adminstrative Shares enabled
Data Execution Prevention is not enabled
Maximum Password age is not configured to 4
Secure logon (Ctrl+Alt+Delete logon) is not e
Antivirus (not considering Windows Defende
Account lockout duration is not configured to
Built-in Administrator Account is not disabled
Folder shares are assigned to everyone group
Windows firewall disabled/ No third-party firewall pre... Windows Firewall 1
Outdated plugins are allowed to run Chrome Security Hardening 2
Info
Info
Info
Critical
Critical
Critical
Critical
Critical
Critical
Critical
Critical
Critical
1 - 30 of 62 30
1:11 / 4:05 • Security Configuration Management ›
Scroll for details

EXHIBIT 13

U.S. Patent No 10,547,631 v. Zoho



Firewall Policy Management

Firewall Analyzer is a firewall administration software, that helps in administering firewall rules and policies into multiple firewalls. The firewall rule automation ensures that firewall rules are pushed into the device seamlessly, avoiding errors and oversight. This firewall administration tool is capable of making the following changes.

- Add, modify, and delete network and service objects
- Add, modify, and delete firewall rules
- Analyze the implications of proposed firewall rule changes
- Push changes directly to the firewall

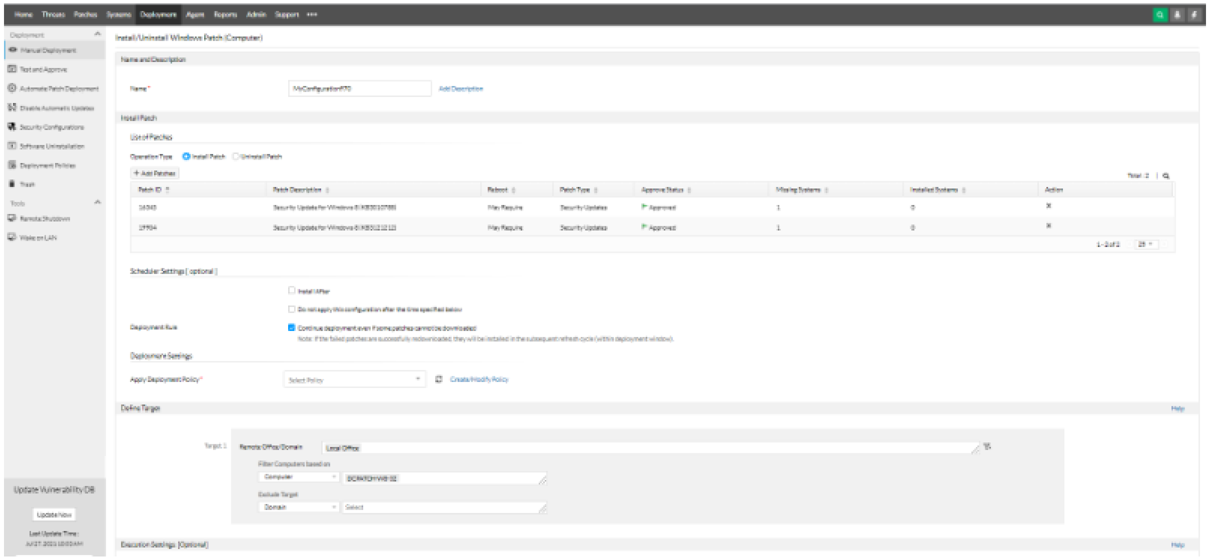
Refer the 'Firewall Rule Administration' page for more details.

Firewall Analyzer is an efficient firewall rule and policy management tool that helps you gain visibility on all firewall rules, optimize firewall rules, and remove rule anomalies. It provides rule management reports for most major firewall devices including Cisco, FortiGate, WatchGuard, and Check Point.

https://www.manageengine.com/products/firewall/firewall-rule-management.html

EXHIBIT 13

U.S. Patent No 10,547,631 v. Zoho

	Leverage built-in patching to ensure swift and accurate remediation With the built-in patching functionality automatically correlating patches with corresponding vulnerabilities, you can deliver instant remediation to all affected machines directly. Not only can you decide when patching should begin and end, but you can also customize every aspect of your patching process using flexible deployment policies. Affected target systems are automatically listed; here, you can add or remove targets as desired. You can also retry patch deployments on failed targets as many times as you want and choose to be notified about the deployment status at a frequency of your choosing.  Home Threats Patches Systems Deployment Agent Reports Admin Support ••• Deployment Manual Deployment Test and Approve Automate Patch Deployment Disable Automatic Updates Security Configurations Software Uninstallation Deployment Policies Trash Tools Remote Shutdown Wake on LAN Update Vulnerability DB Update Now + Add Patches Create/Modify Policy Help Install/Uninstall Windows Patch (Computer) Name and Description Name* MyConfiguration970 Add Description Install Patch List of Patches Operation Type ● Install Patch ○ Uninstall Patch Total : 2 Patch ID | Patch Description | Reboot | Patch Type | Approve Status | Missing Systems | Installed Systems | Action 16348 | Security Update for Windows 8 (KB3010788) | May Require | Security Updates | Approved | 1 | 0 | ☒ 19984 | Security Update for Windows 8 (KB3012213) | May Require | Security Updates | Approved | 1 | 0 | ☒ 1 - 2 of 2 25 Scheduler Settings [optional] □ Install After □ Do not apply this configuration after the time specified below Deployment Rule ☑ Continue deployment even if some patches cannot be downloaded Note: If the failed patches are successfully redownloaded, they will be installed in the subsequent refresh cycle (within deployment window). Deployment Settings Apply Deployment Policy* Select Policy Define Target Target 1 Remote Office/Domain Local Office Filter Computers based on Computer SCRATCHWB-02 Exclude Target Domain Select Last Update Time : JUL 27, 2021 10:03 AM Execution Settings [Optional] https://www.manageengine.com/vulnerability-management/vulnerability-assessment.html
applies, based on the user input causing selection of the	ManageEngine *applies, based on the user input causing selection of the first technique for utilizing the intrusion prevention system component for occurrence mitigation, the first technique for utilizing the*

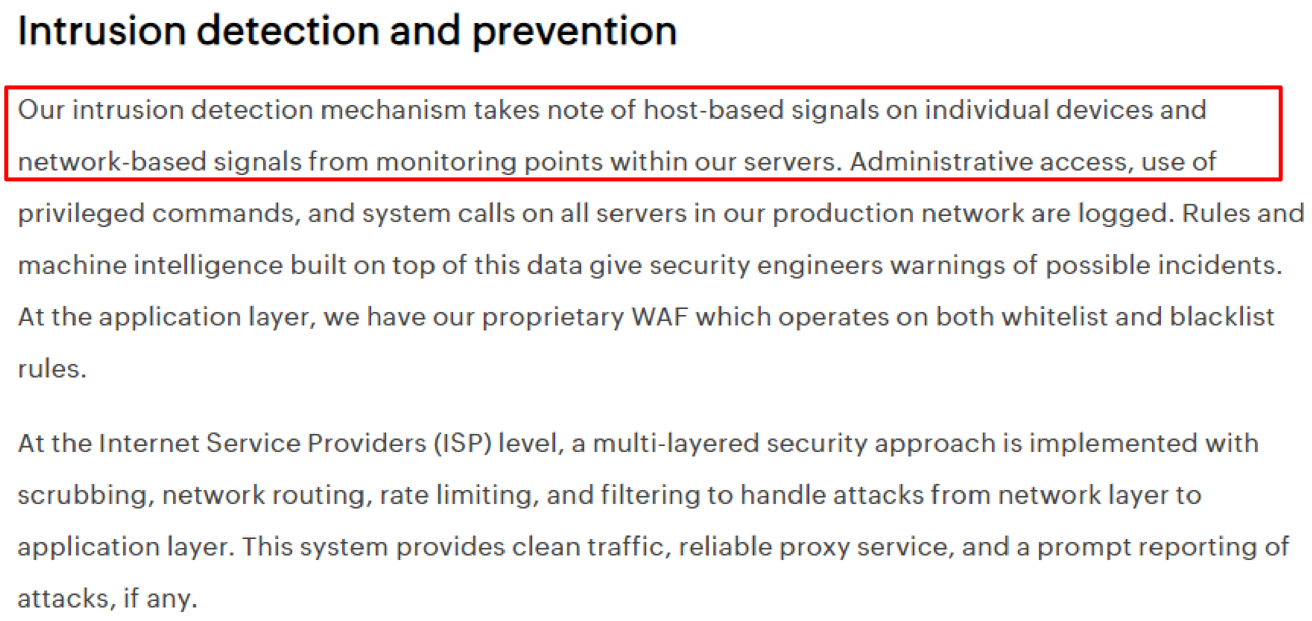
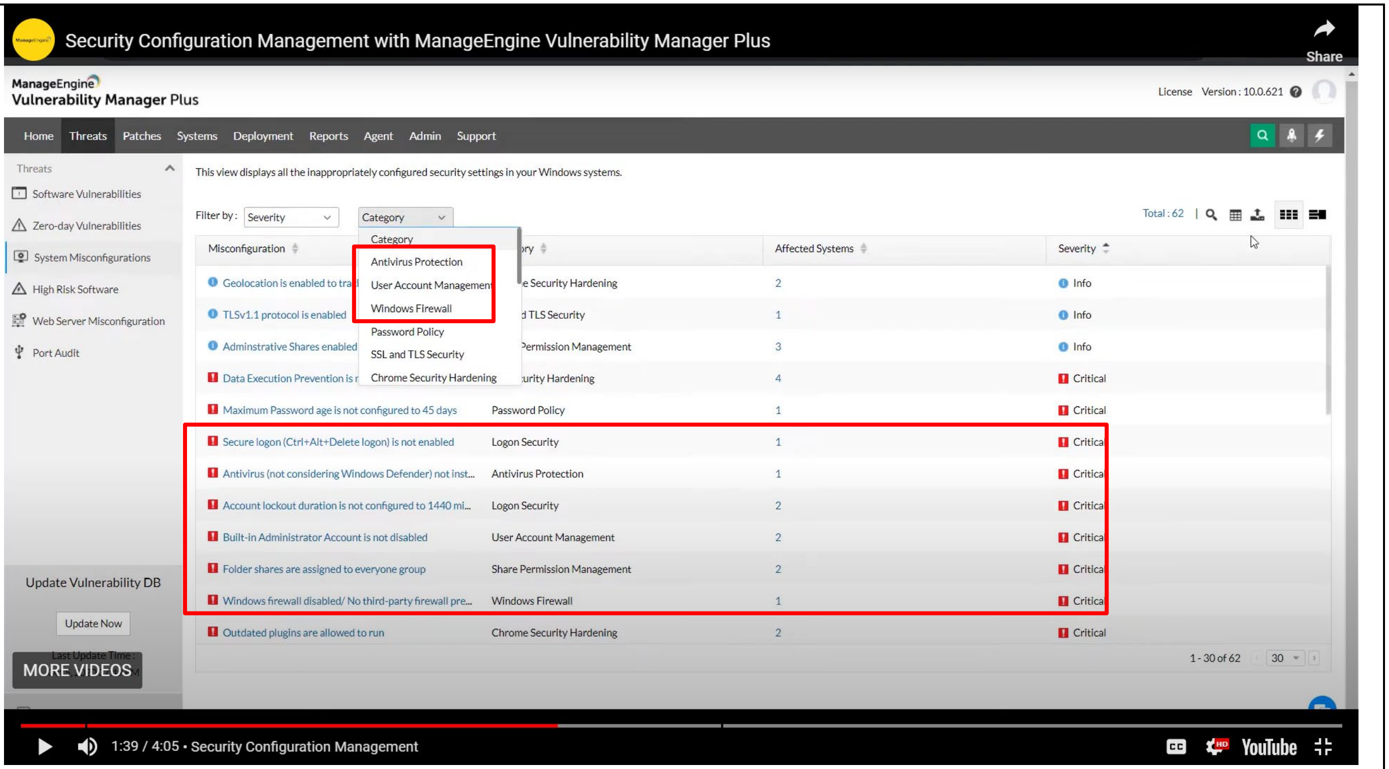
first technique for utilizing the intrusion prevention system component for occurrence mitigation, the first technique for utilizing the intrusion prevention system component for occurrence mitigation; applies, based on the user input causing selection of the second technique for utilizing the firewall for occurrence mitigation, the second technique for utilizing the firewall for occurrence mitigation;	*intrusion prevention system component for occurrence mitigation* (e.g., ManageEngine Vulnerability Manager Plus includes web consol on which user can select antivirus option) , *applies, based on the user input causing selection of the second technique for utilizing the firewall for occurrence mitigation, the second technique for utilizing the firewall for occurrence mitigation* (e.g., ManageEngine Vulnerability Manager Plus includes firewall option). The ManageEngine provides flexibility to choose the devices for applying the different policies or mitigation techniques according to the requirements. Note: See, for example, the evidence above (where applicable) and below (emphasis added, if any):  **Intrusion detection and prevention** Our intrusion detection mechanism takes note of host-based signals on individual devices and network-based signals from monitoring points within our servers. Administrative access, use of privileged commands, and system calls on all servers in our production network are logged. Rules and machine intelligence built on top of this data give security engineers warnings of possible incidents. At the application layer, we have our proprietary WAF which operates on both whitelist and blacklist rules. At the Internet Service Providers (ISP) level, a multi-layered security approach is implemented with scrubbing, network routing, rate limiting, and filtering to handle attacks from network layer to application layer. This system provides clean traffic, reliable proxy service, and a prompt reporting of attacks, if any. https://www.manageengine.com/security.html?mesearch

EXHIBIT 13

U.S. Patent No 10,547,631 v. Zoho



Security Configuration Management with ManageEngine Vulnerability Manager Plus

This view displays all the inappropriately configured security settings in your Windows systems.

Filter by : Severity Category

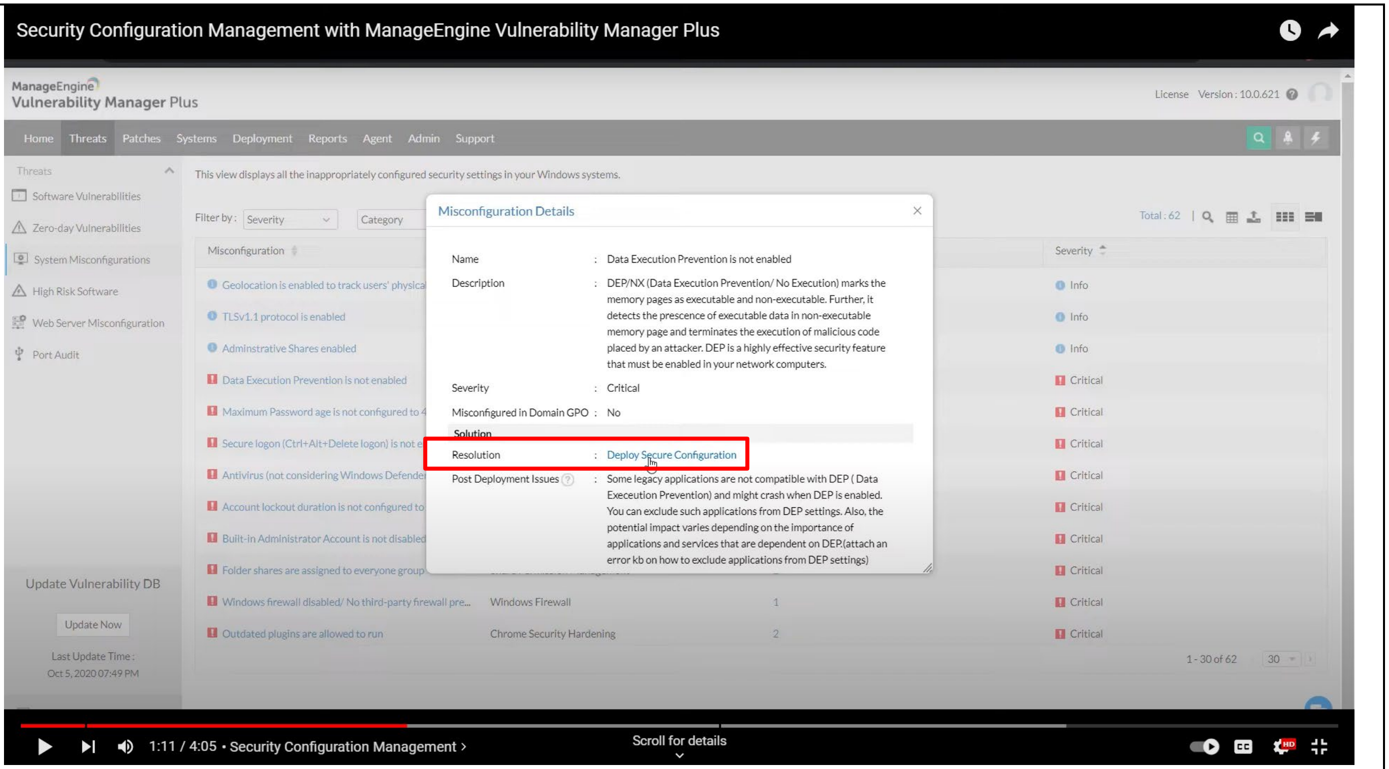
Misconfiguration	ory	Affected Systems	Severity
Geolocation is enabled to tra	e Security Hardening	2	Info
TLSv1.1 protocol is enabled	d TLS Security	1	Info
Adminstrative Shares enabled	Permission Management	3	Info
Data Execution Prevention is r	urity Hardening	4	Critical
Maximum Password age is not configured to 45 days	Password Policy	1	Critical
Secure logon (Ctrl+Alt+Delete logon) is not enabled	Logon Security	1	Critica
Antivirus (not considering Windows Defender) not inst...	Antivirus Protection	1	Critica
Account lockout duration is not configured to 1440 mi...	Logon Security	2	Critica
Built-in Administrator Account is not disabled	User Account Management	2	Critica
Folder shares are assigned to everyone group	Share Permission Management	2	Critica
Windows firewall disabled/ No third-party firewall pre...	Windows Firewall	1	Critica
Outdated plugins are allowed to run	Chrome Security Hardening	2	Critical

1 - 30 of 62 30

https://www.youtube.com/watch?v=p2Oh87NruMo&t=98s

EXHIBIT 13

U.S. Patent No 10,547,631 v. Zoho



Security Configuration Management with ManageEngine Vulnerability Manager Plus

ManageEngine
Vulnerability Manager Plus

Last Update Time : Oct 5, 2020 07:49 PM

This view displays all the inappropriately configured security settings in your Windows systems.

Filter by : Severity Category

Total : 62

Misconfiguration			Severity
Geolocation is enabled to track users' physica			Info
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Adminstrative Shares enabled			Info
Data Execution Prevention is not enabled			Critical
Maximum Password age is not configured to 4			Critical
Secure logon (Ctrl+Alt+Delete logon) is not e			Critical
Antivirus (not considering Windows Defender			Critical
Account lockout duration is not configured to			Critical
Built-in Administrator Account is not disabled			Critical
Folder shares are assigned to everyone group			Critical
Windows firewall disabled/ No third-party firewall pre...	Windows Firewall	1	Critical
Outdated plugins are allowed to run	Chrome Security Hardening	2	Critical

1 - 30 of 62 30

Misconfiguration Details

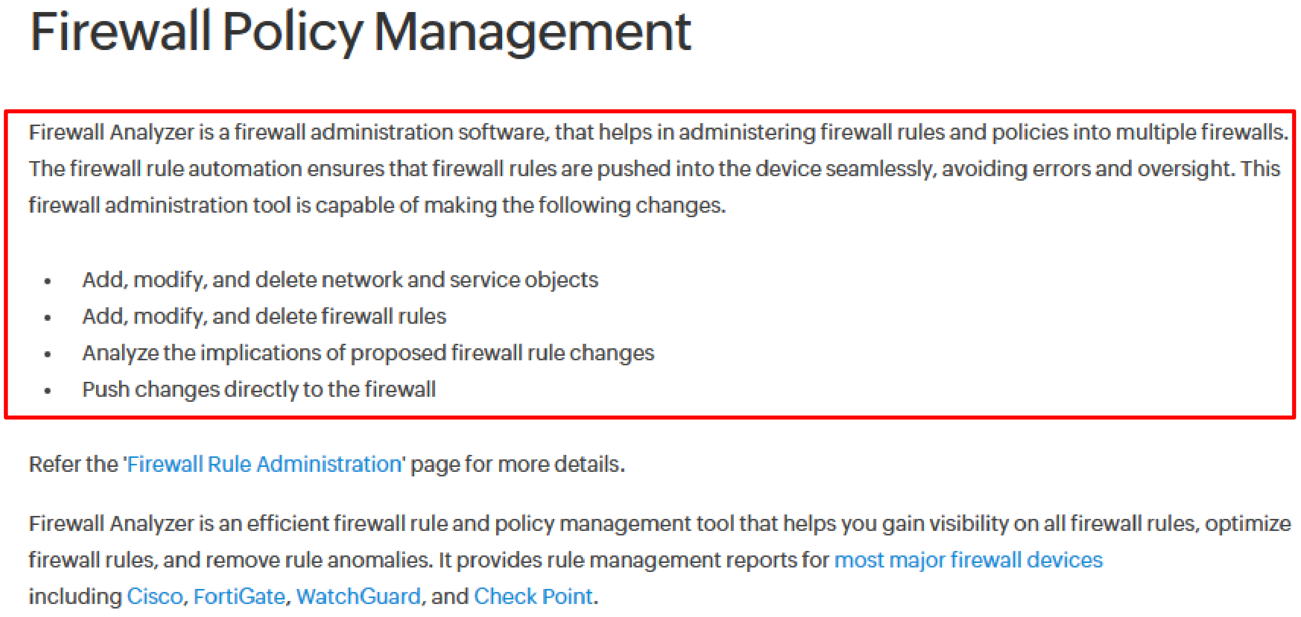
Name	:	Data Execution Prevention is not enabled
Description	:	DEP/NX (Data Execution Prevention/ No Execution) marks the memory pages as executable and non-executable. Further, it detects the prescence of executable data in non-executable memory page and terminates the execution of malicious code placed by an attacker. DEP is a highly effective security feature that must be enabled in your network computers.
Severity	:	Critical
Misconfigured in Domain GPO	:	No
Solution		
Resolution	:	Deploy Secure Configuration
Post Deployment Issues	:	Some legacy applications are not compatible with DEP (Data Exeecution Prevention) and might crash when DEP is enabled. You can exclude such applications from DEP settings. Also, the potential impact varies depending on the importance of applications and services that are dependent on DEP.(attach an error kb on how to exclude applications from DEP settings)

1:11 / 4:05 • Security Configuration Management ›

https://www.youtube.com/watch?v=p2Oh87NruMo&t=53s

EXHIBIT 13

U.S. Patent No 10,547,631 v. Zoho



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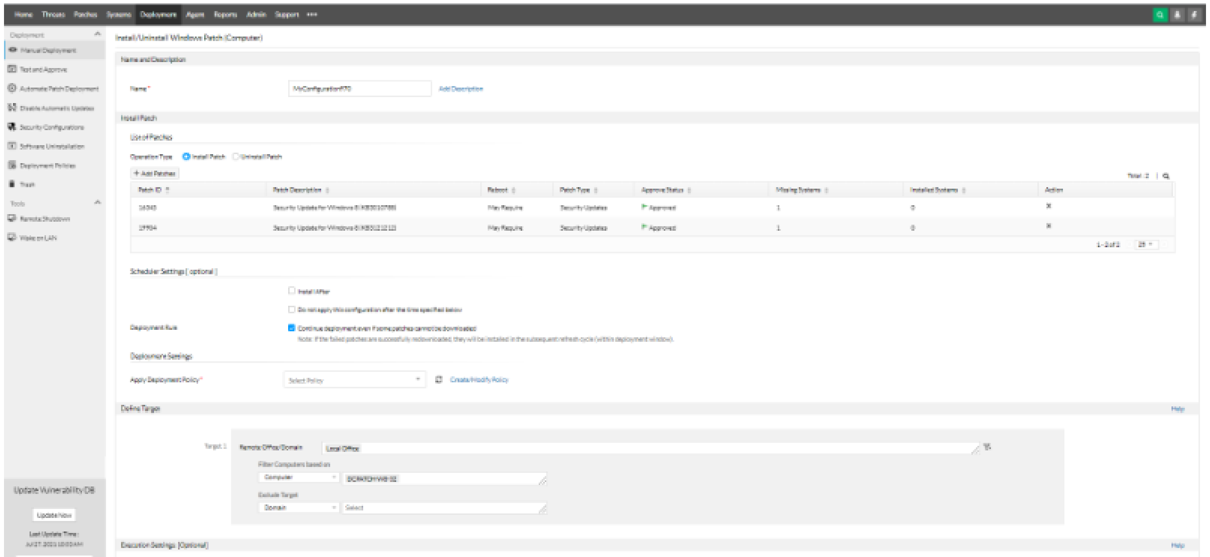
https://www.manageengine.com/products/firewall/firewall-rule-management.html

EXHIBIT 13

U.S. Patent No 10,547,631 v. Zoho

Leverage built-in patching to ensure swift and accurate remediation

With the built-in patching functionality automatically correlating patches with corresponding vulnerabilities, you can deliver instant remediation to all affected machines directly. Not only can you decide when patching should begin and end, but you can also customize every aspect of your patching process using flexible deployment policies. Affected target systems are automatically listed; here, you can add or remove targets as desired. You can also retry patch deployments on failed targets as many times as you want and choose to be notified about the deployment status at a frequency of your choosing.



Last Update Time: Jul 27, 2021 10:03 AM

Install/Uninstall Windows Patch (Computer)

Name and Description

Name*: MyConfiguration770 Add Description

Install Patch

List of Patches

Operation Type ● Install Patch ○ Uninstall Patch

+ Add Patches

Total : 2

Patch ID	Patch Description	Reboot	Patch Type	Approve Status	Missing Systems	Installed Systems	Action
16343	Security Update for Windows 8 (KB3010788)	May Require	Security Updates	Approved	1	0	☒
19904	Security Update for Windows 8 (KB3121212)	May Require	Security Updates	Approved	1	0	☒

1 - 2 of 2 25

Scheduler Settings [optional]

□ Install After

□ Do not apply this configuration after the time specified below

Deployment Rule ☑ Continue deployment even if some patches cannot be downloaded

Note: If the failed patches are successfully redownloaded, they will be installed in the subsequent refresh cycle (within deployment window).

Deployment Settings

Apply Deployment Policy*: Select Policy Create/Modify Policy

Define Target

Target 1: Remote Office/Domain: Local Office

Filter Computers based on: Computer: SCRATCH-W8-32

Exclude Target: Domain: Select

Execution Settings [Optional]

https://www.manageengine.com/vulnerability-management/vulnerability-assessment.html

EXHIBIT 13

U.S. Patent No 10,547,631 v. Zoho

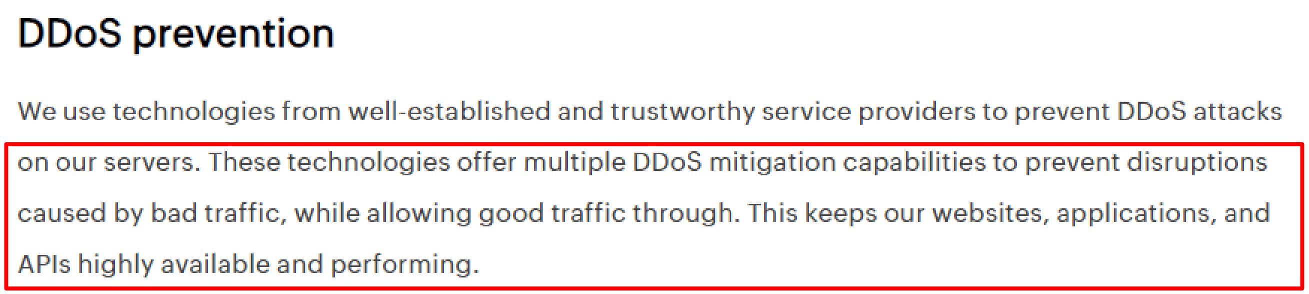
identifies: for the at least one networked device, a first occurrence including at least one first occurrence packet, and for the at least one networked device; a second occurrence including at least one second occurrence packet;	ManageEngine *identifies, for the at least one networked device, a first occurrence including at least one first occurrence packet* (e.g., Bad traffic) , *for the at least one networked device; a second occurrence including at least one second occurrence packet* (e.g., good traffic). Note: See, for example, the evidence above (where applicable) and below (emphasis added, if any):  DDoS prevention We use technologies from well-established and trustworthy service providers to prevent DDoS attacks on our servers. These technologies offer multiple DDoS mitigation capabilities to prevent disruptions caused by bad traffic, while allowing good traffic through. This keeps our websites, applications, and APIs highly available and performing. https://www.manageengine.com/security.html?mesearch

EXHIBIT 13

U.S. Patent No 10,547,631 v. Zoho

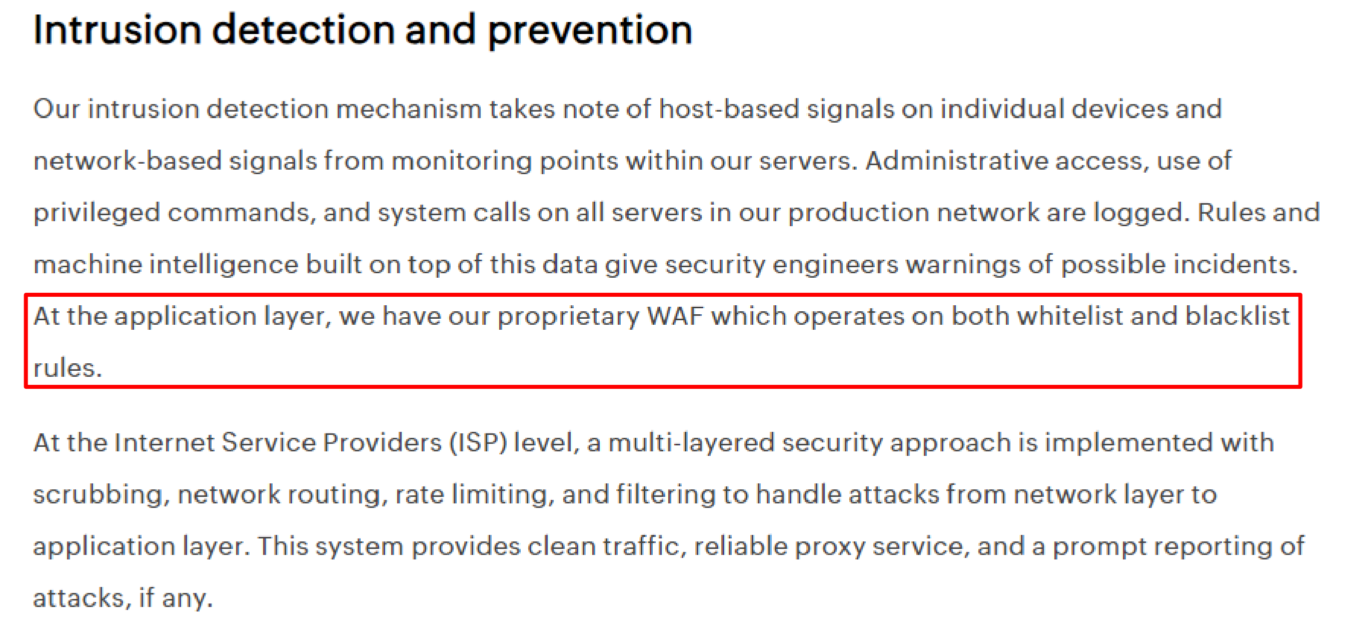
	 Intrusion detection and prevention Our intrusion detection mechanism takes note of host-based signals on individual devices and network-based signals from monitoring points within our servers. Administrative access, use of privileged commands, and system calls on all servers in our production network are logged. Rules and machine intelligence built on top of this data give security engineers warnings of possible incidents. At the application layer, we have our proprietary WAF which operates on both whitelist and blacklist rules. At the Internet Service Providers (ISP) level, a multi-layered security approach is implemented with scrubbing, network routing, rate limiting, and filtering to handle attacks from network layer to application layer. This system provides clean traffic, reliable proxy service, and a prompt reporting of attacks, if any. https://www.manageengine.com/security.html?mesearch
determines: that the first occurrence including the at least one first occurrence packet directed to the at least one networked device is capable of taking advantage of the at least one	ManageEngine *determines* , *that the first occurrence including the at least one first occurrence packet directed to the at least one networked device is capable of taking advantage of the at least one particular vulnerability associated with the at least one networked device* (e.g., Bad traffic) , *that the second occurrence including the at least one second occurrence packet directed to the at least one networked device is not capable of taking advantage of the at least one particular vulnerability* (e.g., good traffic). Note: See, for example, the evidence above (where applicable) and below (emphasis added, if any):

EXHIBIT 13

U.S. Patent No 10,547,631 v. Zoho

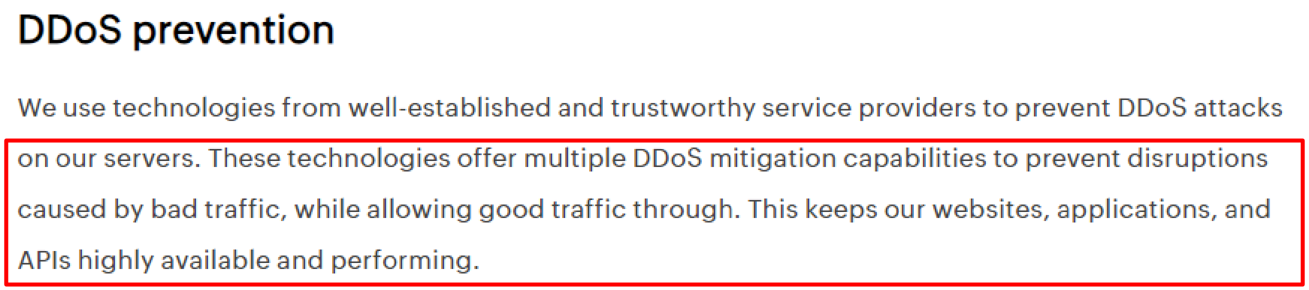
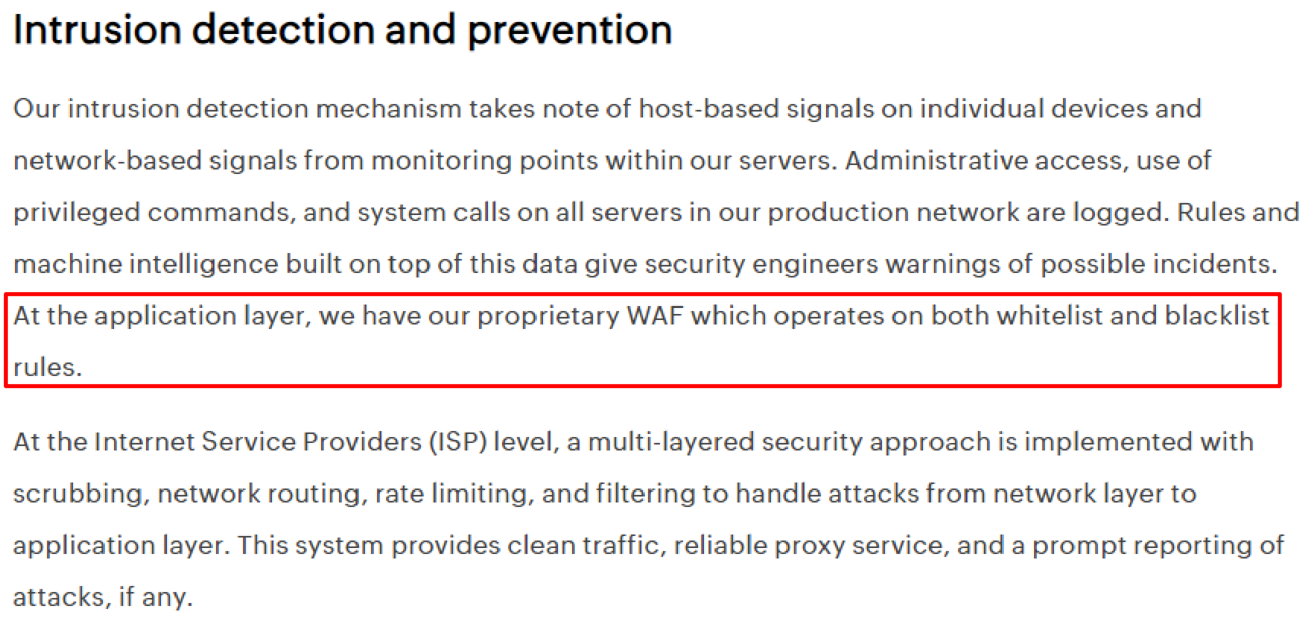
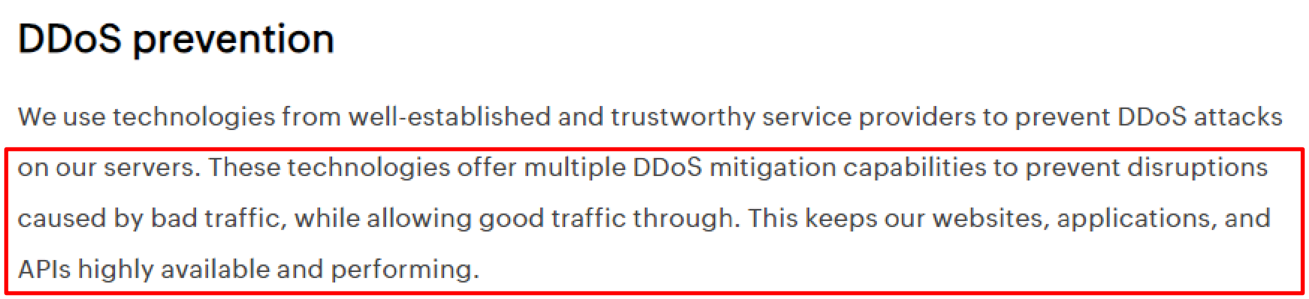
particular vulnerability associated with the at least one networked device; that the second occurrence including the at least one second occurrence packet directed to the at least one networked device is not capable of taking advantage of the at least one particular vulnerability; and	 DDoS prevention We use technologies from well-established and trustworthy service providers to prevent DDoS attacks on our servers. These technologies offer multiple DDoS mitigation capabilities to prevent disruptions caused by bad traffic, while allowing good traffic through. This keeps our websites, applications, and APIs highly available and performing. https://www.manageengine.com/security.html?mesearch  Intrusion detection and prevention Our intrusion detection mechanism takes note of host-based signals on individual devices and network-based signals from monitoring points within our servers. Administrative access, use of privileged commands, and system calls on all servers in our production network are logged. Rules and machine intelligence built on top of this data give security engineers warnings of possible incidents. At the application layer, we have our proprietary WAF which operates on both whitelist and blacklist rules. At the Internet Service Providers (ISP) level, a multi-layered security approach is implemented with scrubbing, network routing, rate limiting, and filtering to handle attacks from network layer to application layer. This system provides clean traffic, reliable proxy service, and a prompt reporting of attacks, if any. https://www.manageengine.com/security.html?mesearch

EXHIBIT 13

U.S. Patent No 10,547,631 v. Zoho

causes a reaction to at least the first occurrence based on the determination that the first occurrence including the at least one first occurrence packet is capable of taking advantage of the at least one particular vulnerability associated with the at least one networked device.	ManageEngine *causes a reaction to at least the first occurrence based on the determination that the first occurrence including the at least one first occurrence packet is capable of taking advantage of the at least one particular vulnerability associated with the at least one networked device* (e.g., mitigation capabilities to prevent disruptions caused by bad traffic) Note: See, for example, the evidence above (where applicable) and below (emphasis added, if any):  DDoS prevention We use technologies from well-established and trustworthy service providers to prevent DDoS attacks on our servers. These technologies offer multiple DDoS mitigation capabilities to prevent disruptions caused by bad traffic, while allowing good traffic through. This keeps our websites, applications, and APIs highly available and performing. https://www.manageengine.com/security.html?mesearch

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	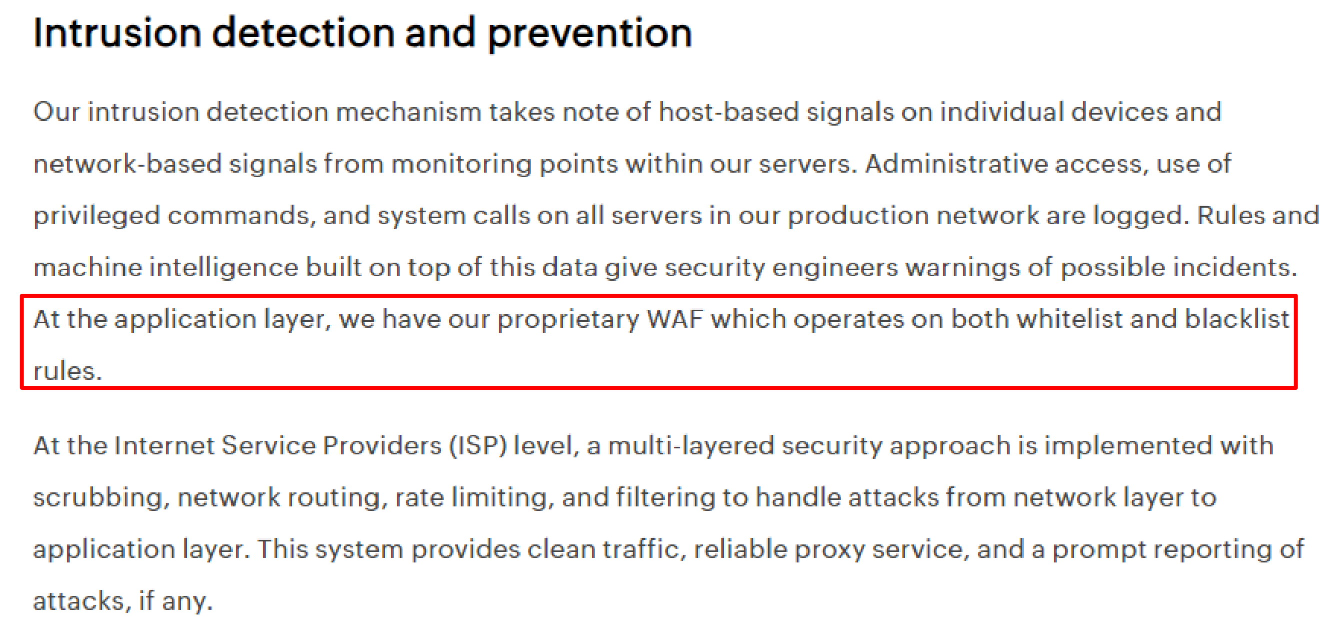 **Intrusion detection and prevention** Our intrusion detection mechanism takes note of host-based signals on individual devices and network-based signals from monitoring points within our servers. Administrative access, use of privileged commands, and system calls on all servers in our production network are logged. Rules and machine intelligence built on top of this data give security engineers warnings of possible incidents. At the application layer, we have our proprietary WAF which operates on both whitelist and blacklist rules. At the Internet Service Providers (ISP) level, a multi-layered security approach is implemented with scrubbing, network routing, rate limiting, and filtering to handle attacks from network layer to application layer. This system provides clean traffic, reliable proxy service, and a prompt reporting of attacks, if any. https://www.manageengine.com/security.html?mesearch